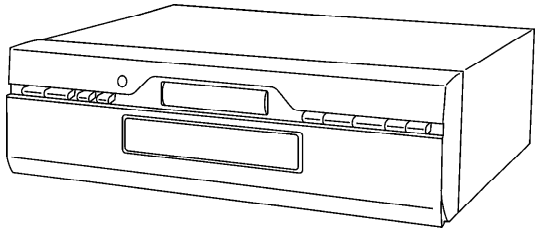
ORDER NO. VRD0006016C2

Digital Video Cassette Recorder

Panasonic Mini DV PAL

NV-DV2000EC

DJ-MECHANISM



SPECIFICATIONS

SPECIFICATIONS

ITEM	SPECIFICATION
POWER	SOURCE : 220 – 240 V AC 50/60 Hz
	CONSUMPTION : 22 watts
RECORDING SYSTEM	VIDEO : 2 rotary heads, Digital Component AUDIO : PCM Digital Recording: 16 bit (48 kHz/2ch), 12 bit (32 kHz/4ch)
	PAL
VIDEO	HEADS :2 rotary heads
	INPUT : EURO AV (AV1/2) Connector (21pinX2) 1.0 Vp-p, 75 Ω terminated VIDEO IN (AV3/4) Connector (Phono type) 1.0 Vp-p, 75 Ω terminated S-VIDEO IN (AV3/4) Connector 1.0 Vp-p, 75 Ω terminated DV Terminals (compliant with IEE1394, 4 PIN)
	OUTPUT: EURO AV (AV1/2) Connector (21 pinX2) 1.0 Vp-p, 75 Ω terminated VIDEO OUT (AV3/4) Connector (Phono type) 1.0 Vp-p, 75 Ω terminated S-VIDEO OUT (AV3/4) Connector 1.0 Vp-p, 75 Ω terminated DV Terminals (compliant with IEE1394, 4 PIN)
AUDIO	HEAD : 16 bit (48 kHz/2ch) : 1 track, 2 channels (Hi-Fi sound-stereo) 12 bit (32 kHz/4ch) : 2 track, 4 channels (Hi-Fi sound-stereo)
	INPUT : EURO AV (AV1/2) Connector (21pinX2) More than -6 dBV (500 mV), More than 10 kΩ AUDIO IN (AV3/4) Connector (Phono type) More than -6V (500 mV), More than 10 kΩ DV Terminals (compliant with IEE1394, 4 PIN)

ITEM	SPECIFICATION
AUDIO	OUTPUT: EURO AV (AV1/2) Connector (21 pinX2) -6 dBV (500 mV), Less than 1 kΩ AUDIO OUT (AV3/4) Connector (Phono type) -6 dBV (500 mV), Less than 1 kΩ DV Terminals (compliant with IEE1394, 4 PIN)
TAPE FORMAT	DV, Mini DV Cassette tape (Tape width 6.35 mm)
TAPE SPEED	SP : 18.831 mm/s LP : 12.568 mm/s Record / Playback Time : SP : 60 min. with DVM60E LP : 90 min. with DVM60E FF / REW Time : approx. 80 sec. with DVM60E
OPERATING CONDITION	Temperature : 5 ℃ – 40 ℃ Humidity : 35 % – 80 %
DIMENSIONS	280 (W) X 91.5 (H) X 222 (D) mm
WEIGHT	2.8 kg
STANDARD ACCESSORIESES	1 pc. Edit Cable 1 pc. S-Video Cable 1 pc. DV Cable 1 pc. AV Cables 1 pc. Digital Video Head Cleaner 2 pc. "R6" size batteries 3 pc. AC Mains Lead 1 pc. Edit Controller 1 pc. AC Plug Adaptor

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

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Panasonic

1. INTRODUCTION

This service manual contains technical information which will allow service personnel to understand and service this model.

If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

NOTE:

Adjustment procedures, Disassembly Procedures and Assembly Procedures for Mechanism Chassis are separated volume from this Service Manual.
Please refer to the Service Manual for DJ-Mechanism Chassis. (Order No. VMD9706005A8)

1.1. CMPONENT REFERRENCE TABLE

If you have the reference number of each component and have no idea where it is, use the following table to find out the C.B.A. and/or diagram.

Reference-Series-	Located C.B.A.	Name of Diagram	Ren
1000 Series	VEP06D55A	RF I/F SECTION IN MAIN	
1100 Series 1200 Series	VEP06D55A	POWER SECTION IN MAIN	
1100 Series 1200 Series	VEP01868A	SUB POWER<POWER SECTION IN MAIN>	
1500 Series	VEP06D55A	RF I/F SECTION IN MAIN	
1500 Series	VEP000D5B	MOTOR DRIVE<DIGITAL (SYSTEM CONTROL& SERVO SECTION)>	
2000 Series	VEP03F39A	DIGITAL (LSI MICON SECTION)	
2500 Series	VEP03F39A	DIGITAL (SYSTEM CONTROL& SERVO SECTION)	
3000 Series	VEP03F39A	DIGITAL (VIDEO 1 SECTION)	
3100 Series	VEP03F39A	DIGITAL (VIDEO 1 SECTION)	
3200 Series	VEP03F39A	DIGITAL (VIDEO 2 SECTION)	
3600 Series	VEP06D55A	VIDEO SECTION IN MAIN	
3700 Series	VEP03F39A	DIGITAL (DIGITAL I/F SECTION)	
3900 Series	VEP03F40A	INPUT/OUTPUT	
4000 Series	VEP06D55A	RF I/F SECTION IN MAIN	
4200 Series	VEP03F39A	DIGITAL (VIDEO 1 SECTION)	
4300 Series	VEP06D55A	AUDIO SECTION IN MAIN	
4500 Series	VEP03F39A	DIGITAL (VIDEO 1 SECTION)	
4700 Series	VEP06D55A	VIDEO SECTION IN MAIN	
4800 Series	VEP07A24A	TIMER	
4900 Series	VEP06D55A	RF I/F SECTION IN MAIN	
4900 Series	VEP03F40A	INPUT/OUTPUT	
4950 Series	VEP06D55A	RF I/F SECTION IN MAIN	
5000 Series	VEP05352A	HEAD/ REC AMP	
6000 Series 6100 Series	VEP03F39A	DIGITAL (SYSTEM CONTROL& SERVO SECTION)	
6200 Series	VEP06D55A	RF I/F SECTION IN MAIN	
7500 Series	VEP07A24A	TIMER	

7600 Series	VEP06D55A	RF I/F SECTION IN MAIN	
7650 Series	VEP07A04A	DV JACK<RF I/F SECTION IN MAIN>	
'----	VEP000D6A	SW<DIGITAL (SYSTEM CONTROL& SERVO SECTION)>	
30000 Series	VEP03F41A	ANALOG Y/C	

2. GENERAL DESCRIPTIONS

2.1. SERVICE POSITION

2.1.1. Extension Cables

Use the following Extension Cables when checking individual circuit boards.

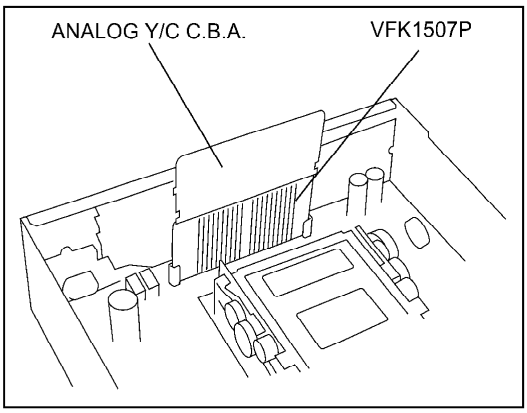
No.	Part No.	Part Name	Connection	Q'ty	Rema
1	VFK1507P	ANALOG Y/C Connection C.B.A.	Main C.B.A. → Analog Y/C C.B.A.	1	
2	VFK1509	36P Flat Cable	Main FP3401 → Digital FP3201	1	
3	VFK1508	32P Flat Cable	Main FP3402 → Digital FP3202	1	
4	VFK1509	36P Flat Cable	Main FP6201 → Digital FP6002	1	
5	VFK1174	30P Flat Cable	Digital FP6003 → Mech. Flex. (VES0914)	1	
6	VFK1284	24P Flat Cable	Digital FP3203 → Mech. (Head Amp)	1	
7	VFK1292	9P Flat Cable	Digital P2501 → Mech. (Cylinder)	1	
8	VFK1282	22P Flat Cable	Digital P2502 → Mech. (Capstan)	1	
9	VFK1446	32P Flat Cable	Main P7901 → Timer P7502	1	
10	VFK1445	26P Flat Cable	Main P7902 → Timer P7501	1	
11	VFK1527	3P Extension Cable	Digital P6001 → Switch P1502	1	
12	VFK1529	2P Extension Cable	Digital P6002 → Motor P1501	1	
13	VFK1530	30P Flat Cable	Mech. Flex. (VES0914)	1	for Emagen Ejection

Fig. 2-1 Extension Cable

2.1.2. Service Position

2.1.2.1. Service Position for Analog Y/C C.B.A.

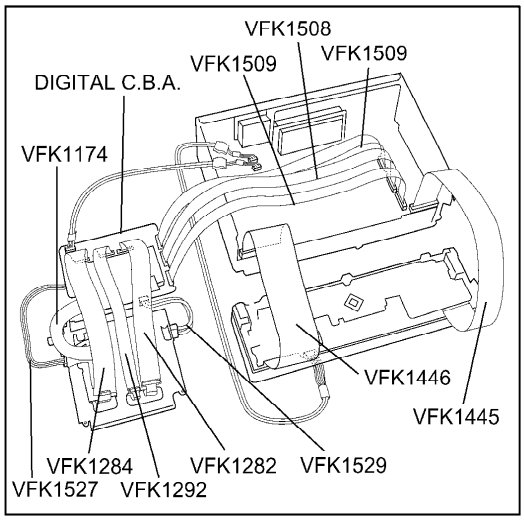
Fig. 2-2 Service Position for Analog Y/C C.B.A.



2.1.2.2. Service Position for Digital C.B.A.

When checking the Digital C.B.A., remove the Mechanism unit with Digital C.B.A. from the frame. Then, connect the extension cables as shown in Fig. 2-3 Service Position for Digital C.B.A. and turn overthe Mechanism unit.

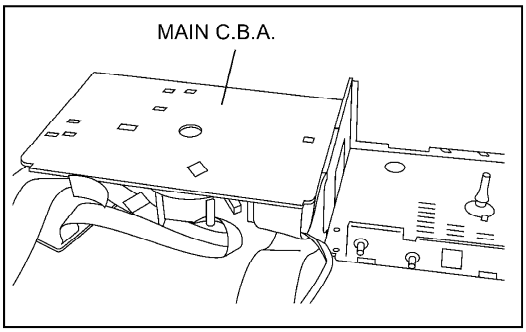
Fig. 2-3 Service Position for Digital C.B.A.



2.1.2.3. Service Position for Main C.B.A.

When checking the Main C.B.A., take out the Mechanism unit with Digital C.B.A. and Main C.B.A. from the frame. Then, connect extension cables as shown in Fig. 2-4 Service Position for Main C.B.A. and turnover the Main C.B.A..

Fig. 2-4 Service Position for Main C.B.A.

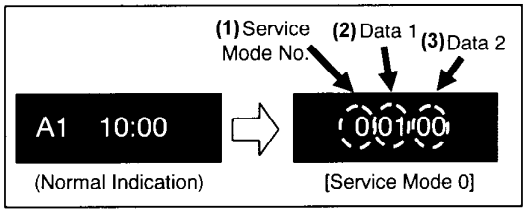


2.2. SERVICE MODE

2.2.1. Setting the Service Mode

This VTR is equipped with the Service Mode, which is effective for servicing.To turn on the Service Mode, press FF and EJECT button simultaneously in 3 seconds.(Indication of Front Panel Display is changed as shown in Fig.2-5 Service Mode (Sample).)

Fig. 2-5 Service Mode (Sample)



2.2.2. How to use the Service Mode

There are 8 kinds of Service Mode and the subject of each Service Mode is listed below.

Mode 0: Mevhanism process/position
Mode 1: Tape Beg/End Sensor& Receiving key command
Mode 2: Mechanism position& slot mode
Mode 3: Self-Diagnosed record 1 (Latest)
Mode 4: Self-Diagnosed record 2 (2nd Latest)
Mode 5: Self-Diagnosed record 3 (3rd Latest)
Mode 6: Receiving command at LSI
Mode 7: Mechanism Manual operation
The following chart shows the meaning of the each code.
To read/decode the Service Mode, use following chart.

<table>
<tr><th>(1) No.</th><th>Group</th><th>(2) Data 1</th><th>(3) Data 2</th><th>Ren</th></tr>
<tr><td>0</td><td>Mechanism position.</td><td>VCR (Deck) Mode [Real-time]</td><td>Mechanism driving position process code. [Real-time]</td><td></td></tr>
<tr><td>1</td><td>Tape Beg/End sensor checkup& Receiving key Command checkup</td><td>Tape Beginning/End Detection data. [Real-time]
<table><tr><th>Code</th><th>Beginning</th><th>End</th></tr><tr><td>00</td><td>Detecting</td><td>Detecting</td></tr><tr><td>01</td><td>Detecting</td><td>No detection</td></tr><tr><td>02</td><td>No detection</td><td>Detecting</td></tr><tr><td>03</td><td>No detection</td><td>No detection</td></tr></table></td><td>Receiving Key command from both Remote controller & VCR. [Real-time]</td><td></td></tr>
<tr><td>2</td><td>Mechanism position& slot mode checkup</td><td>Mechanism position [Real-time]
<table><tr><th>Code</th><th>Mechanism position</th></tr><tr><td>01</td><td>EJECT</td></tr><tr><td>02</td><td>DOWN</td></tr><tr><td>04</td><td>HALF-LOADING</td></tr><tr><td>06</td><td>STAND-BY</td></tr><tr><td>07</td><td>STOP2&FF/REW</td></tr><tr><td>09</td><td>PLAY&STOP3</td></tr><tr><td>0A</td><td>REW</td></tr><tr><td>03,05, 08,0U</td><td>INTERMEDIATE POSITION</td></tr></table></td><td>Slot mode [Real-time]
<table><tr><th>Code</th><th>Slot Mode</th></tr><tr><td>03</td><td>OPEN</td></tr><tr><td>02</td><td>H/C</td></tr><tr><td>01</td><td>CLOSE</td></tr><tr><td>00</td><td>DOWN</td></tr></table></td><td>At this m
the Eject
pressed r
3 second
be the Ele
Adjustme</td></tr>
</table>

(1) No.	Group	(2) Data 1	(3) Data 2	Ren
3	Self-Diagnosed record 1 (Latest)	Refer to the Fig. 2-8	These two digits (Data2) are meaningless although it might be changed.	Refer to t SELFDIA MODE.
4	Self-Diagnosed record 2 (2nd Latest)	Refer to the Fig. 2-8	These two digits (Data2) are meaningless although it might be changed.	Refer to t SELFDIA MODE.
5	Self-Diagnosed record 3 (3rd Latest)	Refer to the Fig. 2-8	These two digits (Data2) are meaningless although it might be changed.	Refer to t SELFDIA MODE.

(To be continued.)

(1) No.	Group	(2) Data 1	(3) Data 2	Ren
6	LSI receiving command checkup	Deck Mode Code / Deck Mode 00 STOP 08 PLAY 03 FF 02 REW 0A REC	LSI Mode [Real-time] Code / LSI Mode / Code / LSI Mode 01 STOP / 09 REV 02 EJECT / 0A CUE 04 FF / 0C SLOW 05 REW / 0D RSLOW 06 REC/PS / 12 INSERT/PS 07 REC / 13 INSERT 08 PLAY / - / -	
7	Mechanism Manual operation	Mechanism Position (Real-time) (Same data with Service Mode 2)	Slot mode (Real-time (Same data with Service Mode 2)	

Fig. 2-6 Service Mode Decoding Table

2.2.3. Self- Diagnosis Mode

This VTR has a Self-Diagnosis function, which detects troubles when undesirable condition occurred.When one of the following listed trouble is detected, Power is automatically turns off and its error is saved as the "Error-Code" in Timer microprocessor (IC7501).(Threeerror codes can be memorized in historical order and are backed up by the Lithium Battery;B7901.)

NOTE:

It is not automatically displayed on the Front Panel Display although trouble has been detected. (It means that user can not be recognized what is happened.)

2.2.3.1. How To Confirm The "Error Code".

The Error Code can be confirmed on the Front Panel Display by placing the unit to the Service Mode 3, 4 and/or 5.

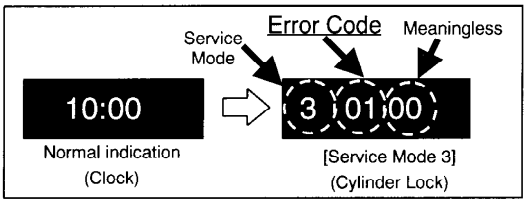
1. **Turn on the Service Mode by pressing "FF" and "EJECT" buttons simultaneously in more than 3 seconds.**
2. **Select the Service Mode 3, 4 or 5 by pressing the "FF" and "EJECT" buttons simultaneously in certain time.The error codes**

can be displayed Service Mode 3, 4 and 5 in historical order.
Service Mode 3 displays the last Error Code on the FIP.
Service Mode 4 displays the Error Code on the FIP, which is just before the error code displayed in Service Mode 3.
Service Mode 5 displays the Error Code on the FIP, which is just before the error code displayed in Service Mode 4.

NOTE:

Although same errors are occurred in several times, only first error code is memorized.(When the error is occurred, it is compared with the memorized data. If the just occurred error is same as the memorized one, it is skipped to be memorizing.)

Fig. 2-7 Error Code is displayed in F.I.P. (Example)



Error Code	Condition	Description	Remedy/Che
01	Cylinder Lock	The cylinder does not rotate or Cylinder lock has been detected during normal rotation.	Check the Cylinder Cylinder Drive IC
02	Capstan Lock	FG signal does not existed in the Cassette down position (Eject-Rev.).	Check the Capstan Capstan Drive IC
03	Loading Lock	Mechanism Lock has been detected during loading operation.	Loading Post
04	Unloading Lock	Mechanism Lock has been detected during unloading operation.	Loading Post
05	Reel FG NG	Abnormal Reel FG has been detected during loading/unloading operation.	Reel FG line
07	Slot Motor Lock	Slot motor lock has been detected during slot in/out operation.	Slot Motor
09	Communication Error (Sys-Timer)	"SYSCON-TIMER" Communication error has been detected.	Communication-line
11	Head Clogging	Head clogging has been detected.	Head cleaning
14	Mode error	Cassette down position has been detected during unloading operation.	Loading Motor Drive Mode Switch
17	S-Reel Lock	S-Reel Lock has been detected during normal rotation.	S-Reel
18	T-Reel Lock	T-Reel Lock has been detected during normal rotation.	T-Reel
19	Fan Motor Lock	Fan motor does not rotate after turning power ON.	Fan motor

Error Code	Condition	Description	Remedy/Che
51	S-Photo Tr Adj. Error	Adjustment Error. (Adjustment error of S-Photo Transistor sensitivity Adjustment.)	Re-adjustment is re (Tape End Sensor Adjustment.)

(To be continued.)

Error Code	Condition	Description	Remedy/Che
52	T-Photo Tr Adj. Error	Adjustment Error. (Adjustment error of T-Photo Transistor sensitivity Adjustment.)	Re-adjustment is re (Tape Beg. Sensor Adjustment.)
53	S/T-Photo Tr Adj. Error	Adjustment Error. (Adjustment error of S/T-Photo Transistor sensitivity Adjustment.)	Re-adjustment is re (Tape End/Beg. Sens Adjustment.)

Fig. 2-8 Error Code (Displayed in Service Mode 3, 4 and 5)

2.2.4. Emergency Tape Ejection

If the electric circuit defects and no Tape ejection can be made in regular way, try following methods.There are two methods to achieve the emergency tape ejection.

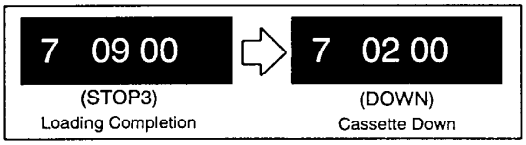
1. Utilizing the Service Mode 7.
2. Utilizing the Extra DC power (batteries).

2.2.4.1. Utilizing the Service Mode 7

Procedures:

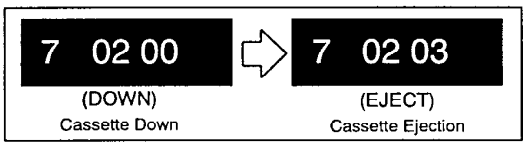
1. Remove the Top panel.
   [Refer to the "Disassembly Procedures" section.]
2. Turn on the Service mode and select mode 7.
   [Refer to the "Service Mode" section.]
   In this mode, when the "STOP" button is pressed, loading motor rotates unloading direction.
   Also when the "PLAY" button is pressed, loading motor rotates loading direction.
   This action is effective only while either "STOP" or "PLAY" button is being pressed.
   NOTE:
   While loading/unloading operation, pay attention to the tape slack.
3. Press the "STOP" button until "7 02 00"(Cassette Down position) is displayed on the F.I.P. display.

Fig. 2-9



4. Be sure to confirm no tape slack and take up the tape slack by rotating Capstan with hand if necessarily.
5. Press the "STOP" button until "7 02 03"(Cassette Eject position) is displayed on the F.I.P. display.

Fig. 2-10



6. Take out the tape carefully.

2.2.4.2. Utilizing the Extra DC power (batteries)

Procedures:

1. Remove the Mechanism unit from the chassis.

[Refer to the "Disassembly Procedures" section.]

2. **Remove the Digital C.B.A. from the Mechanism unit.**
3. **Remove the shield case of capstan unit.**
4. **Connect the Flexible card (VFK1530).**
5. **Supply the+B (4.5V) to VFK1530 to activate the unloading operation.**
   Loading.....Pin25,26 (+4.5V) Pin27,28 (GND)
   Unloading.....Pin25,26 (GND) Pin27,28 (+4.5V)
   In this case, stop supplying the power at just before the mechanism to be the unloading complete position (Tension post is not retracted fully), otherwise, the tape slack can not be taken although capstan is rotated with hand.
6. **Confirm that no tape slack and supply the power again to make full unloading position (Tension post is retracted fully). Take up the tape slack by rotating Capstan with hand if necessarily.**
7. **Rotate the worm wheel with hand in counterclockwise, then take out the tape carefully.**

Fig. 2-11

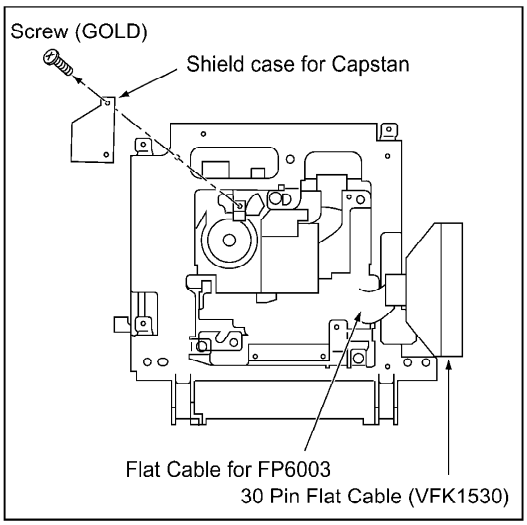


Fig. 2-12

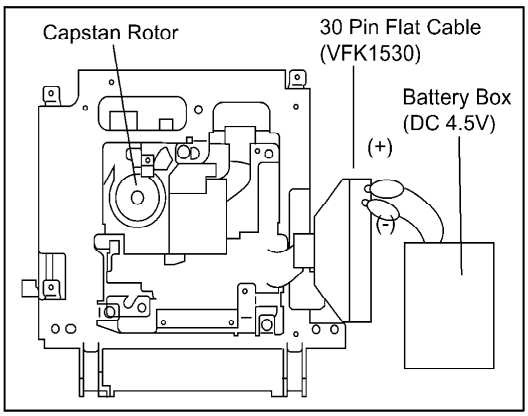
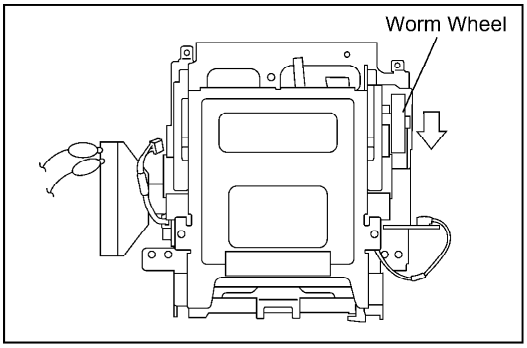


Fig. 2-13



2.3. OPERATING GUIDE

2.4. CAUTION FOR AC MAINS LEAD (FOR UK)

2.5. HOW TO REPLACE THE LITHIUM BATTERY

2.5.1. Backup Battery B7901

This VTR equipped with the Backup Battery (B7901) to backup the following memorized data in the Timer microprocessor (IC7501).

1. Setting condition of "VCR Functions"
- **OSD(AUTO/ON/OFF)**
- **VCR display(ON/OFF/DIMMED)**
- **Colour Mode(COLOUR/ B/W)**
- **Comb filter (ON/OFF)**
- **E-TBC (ON/OFF)**
- **REC-DNR (LEVEL1/LEVEL2)**
- **PB-DNR (LEVEL1/LEVEL2)**
- **Remote (VCR1/VCR2/VCR3)**

2. Setting condition of "Edit Functions"
- **Search with Sound (OFF/EDIT ONLY/ALWAYS ON)**
- **Audio Mode(12bit/16bit)**

One-Touch-Edit(OFF/ON)
Still Album(3-20seconds adjustable)

3. Clock& Date data

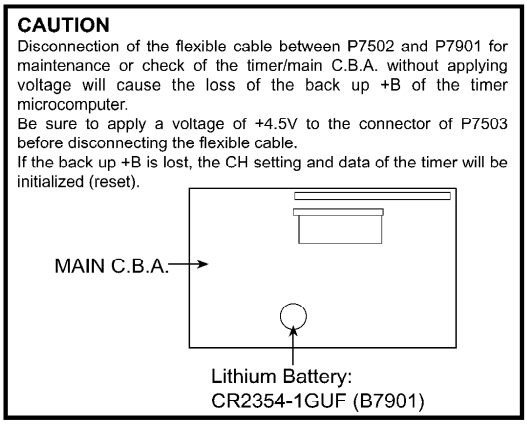
4. Self-Diagnosed Result Record (3 records)

2.5.2. Replacement Procedure

1. Remove the Top Panel and Mechanism unit with DIGITAL C.B.A.(VEP03F39A).(Refer to Disassembly Procedures).

2. Unsolder the Lithium Battery;B7901"CR2354-1GUF" and then replace it into new one.(SeeFig. B1)

Fig. B1


CAUTION
Disconnection of the flexible cable between P7502 and P7901 for maintenance or check of the timer/main C.B.A. without applying voltage will cause the loss of the back up +B of the timer microcomputer.
Be sure to apply a voltage of +4.5V to the connector of P7503 before disconnecting the flexible cable.
If the back up +B is lost, the CH setting and data of the timer will be initialized (reset).
MAIN C.B.A.
Lithium Battery:
CR2354-1GUF (B7901)

CAUTION:

The lithium battery is a critical component (Type No.: CR2354-1GUF Manufactured by Panasonic.) / It must never be subjected to excessive heat or discharge. / It must therefore only be fitted in equipment designed specifically for its use. / Replacementbatteries must be of the same type and manufacture. / They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed. / Do not attempt to re-charge the old battery or re-use it for any otherpurpose. / It should be disposed of in waste products destined for burial rather than incineration.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

3. ADJUSTMENT PROCEDURES

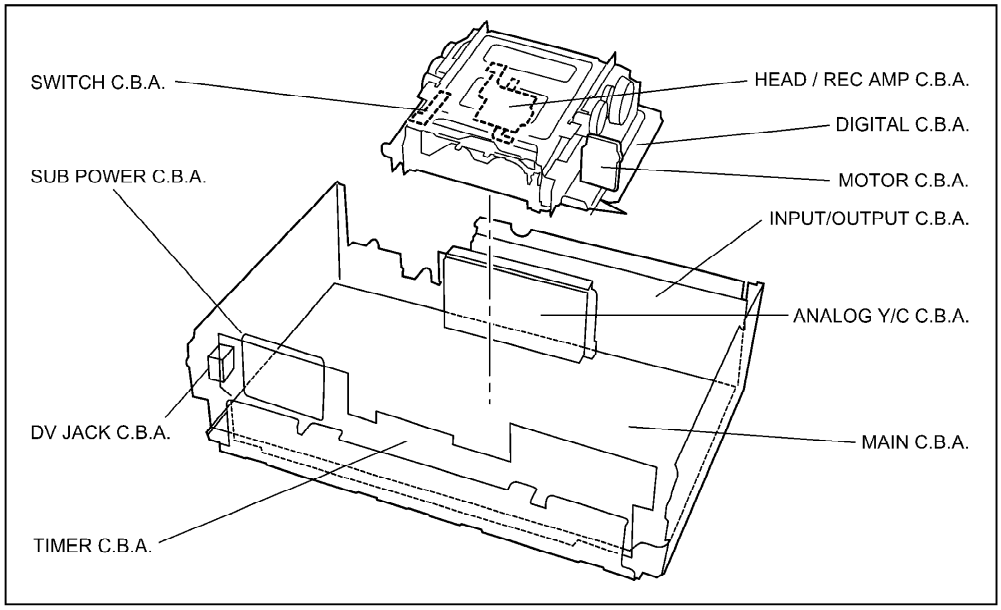
3.1. DISASSEMBLY/ ASSEMBLY PROCEDURES FOR CABINET PARTS, C.B.A. AND MECHANISM UNIT

3.1.1. Disassemble Flow Chart for cabinet parts, C.B.A. and Mechanism Unit.

This flow chart indicates the disassembly steps the cabinet parts, C.B.A. and Mechanism Unit in order to access to items to be serviced. When reinstalling, perform the steps in reverse order.

Fig. 3-1 Flow Chart

Fig. 3-2



3.1.2. Assemble/ Disassemble Procedures (for cabinet parts, C.B.A. and

Mechanism Unit)

No.	ITEM/PART	FIGURE	REMARKS
1	Top Panel	Fig. D1	2-Screws (A) 3-Screws (B)
2	Front Panel	Fig. D2	5-Tabs (a)
3	Analog Y/C C.B.A.	Fig. D3	Note1: 2-Locking Tabs (b)
4	Timer C.B.A	Fig. D3	6-Screws (F) / 5-Tabs (d) / 2-Flexible Cable (e) / (P7901, P7902)
5	DV Jack C.B.A.	Fig. D4	1-Connector (f) (P7602) 1-Screw (G)
6	Mechanism Unit	Fig. D3	3-Flexible Cable (g) (FP3401, FP3402, FP6201) 1-Screw (C) 2-Screws (D) 1-Connector (h) (P7601)
7	Digital C.B.A.	Fig. D5 Fig. D6	3-Flexible Cable (i) (FP3203, P2501, P2502) 2-Screws (H) 2-Screws (I) 1-Flexible Cable (j) (FP6003) 2-Connectors (k) (P6001, P6002)
8	Head Rec Amp C.B.A.	Fig. D7	1-Screw (J) 2-Screws (K) 1-Flexible Cable (l) (FP5001)
9	Rear Panel and Fan Motor	Fig. D3 Fig. D8	1-Connector (m) (P1001) 1-Screw (L) 7-Screws (M) 2-Tabs (n) 2-Tabs (p)
10	Main C.B.A.	Fig. D3	3-Screws (E) 1-Tabs (o)

Fig. D1

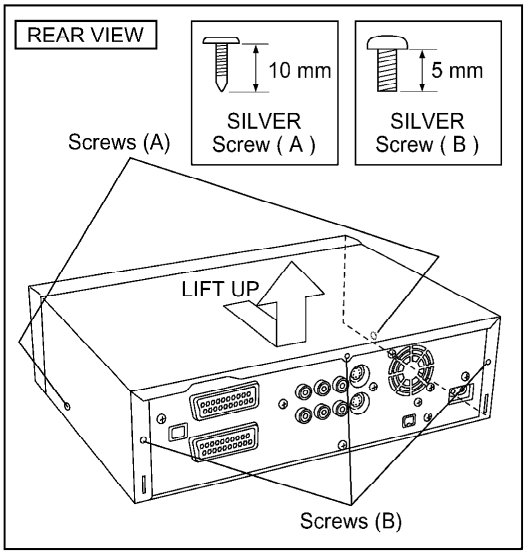

REAR VIEW
10 mm
SILVER
Screw (A)
5 mm
SILVER
Screw (B)
Screws (A)
LIFT UP
Screws (B)

Fig. D2

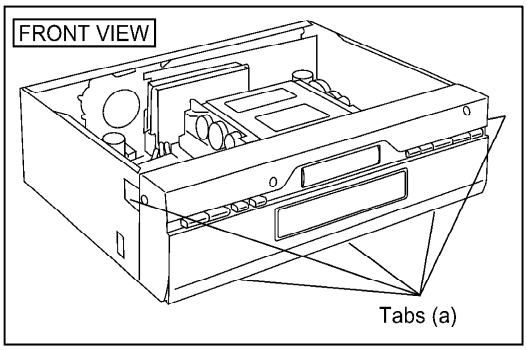
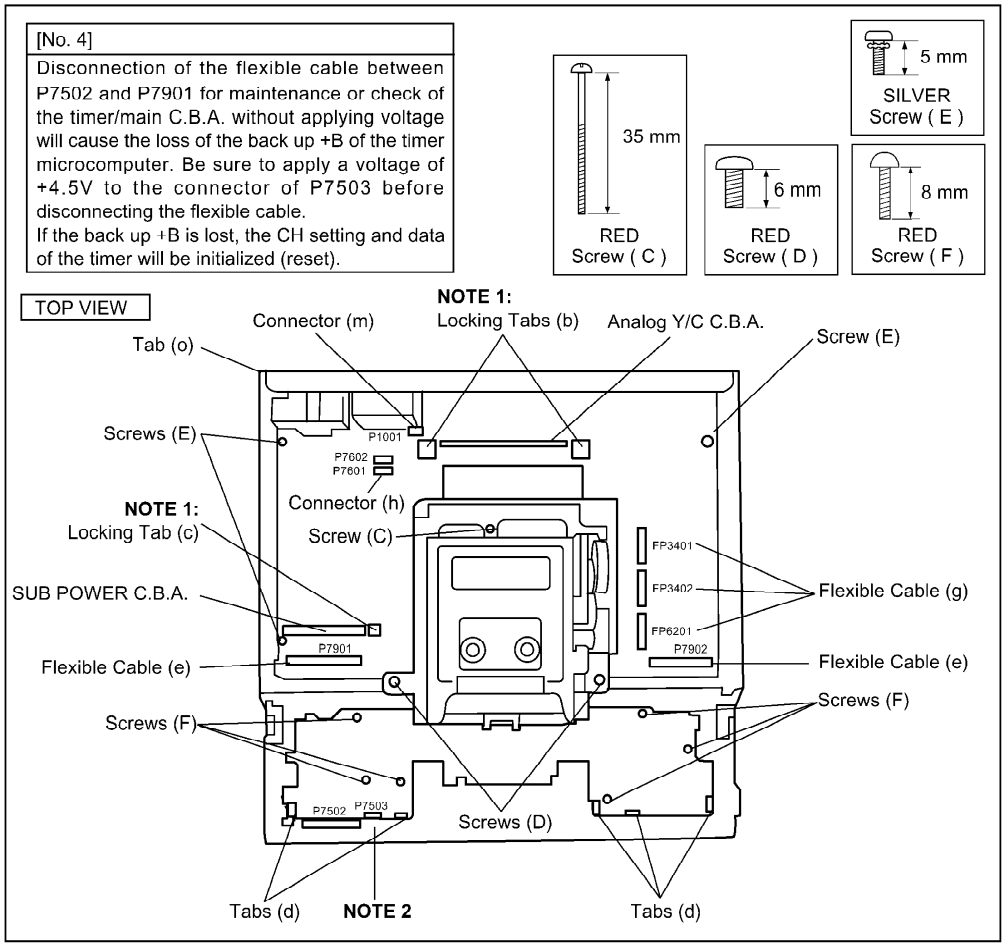

FRONT VIEW
Tabs (a)

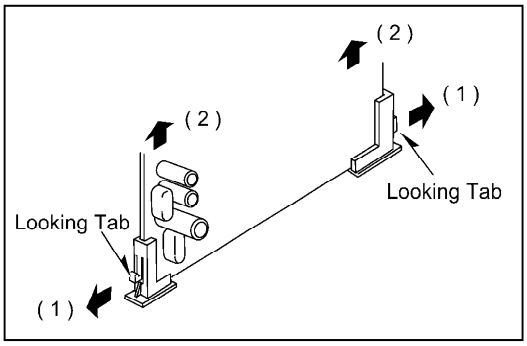
Fig. D3

[No. 4]

Disconnection of the flexible cable between P7502 and P7901 for maintenance or check of the timer/main C.B.A. without applying voltage will cause the loss of the back up +B of the timer microcomputer. Be sure to apply a voltage of +4.5V to the connector of P7503 before disconnecting the flexible cable.
If the back up +B is lost, the CH setting and data of the timer will be initialized (reset).



NOTE 1



NOTE 2

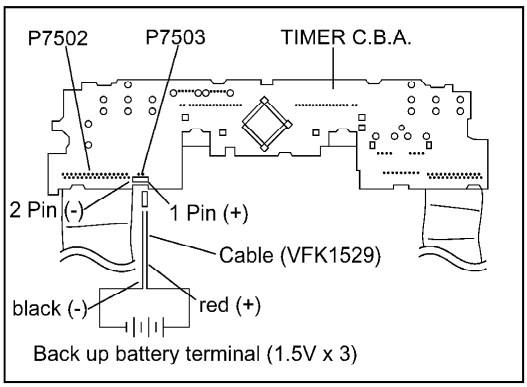


Fig. D4

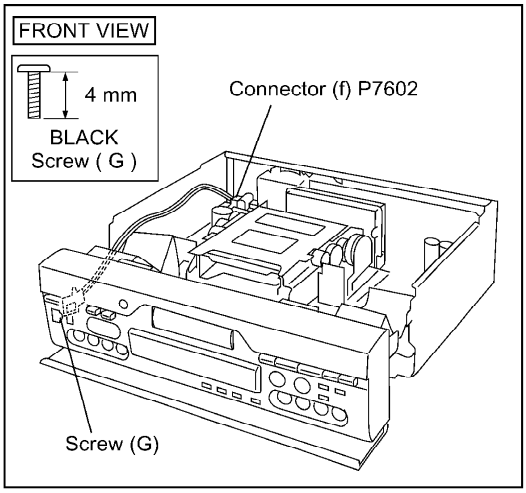


Fig. D5

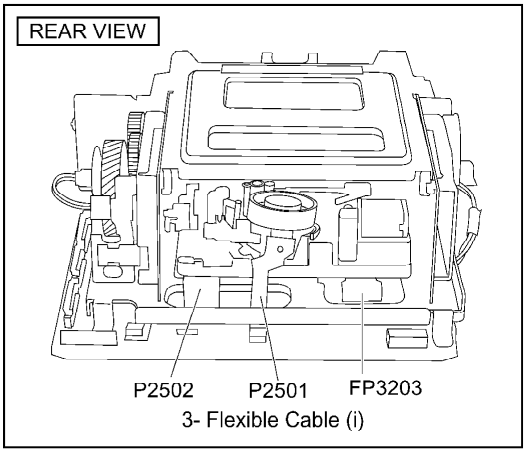


Fig. D6

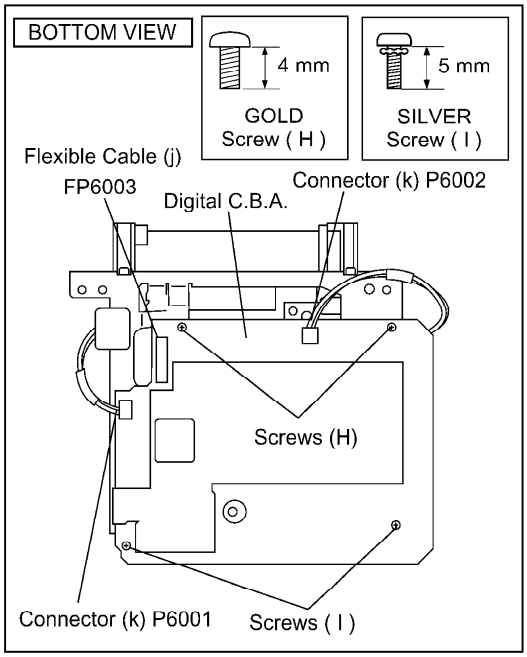

BOTTOM VIEW
4 mm
GOLD
Screw (H)
5 mm
SILVER
Screw (I)
Flexible Cable (j)
FP6003
Digital C.B.A.
Connector (k) P6002
Screws (H)
Connector (k) P6001
Screws (I)

Fig. D7

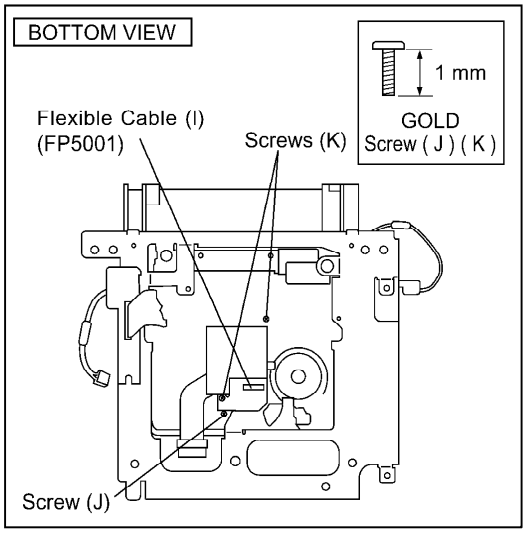
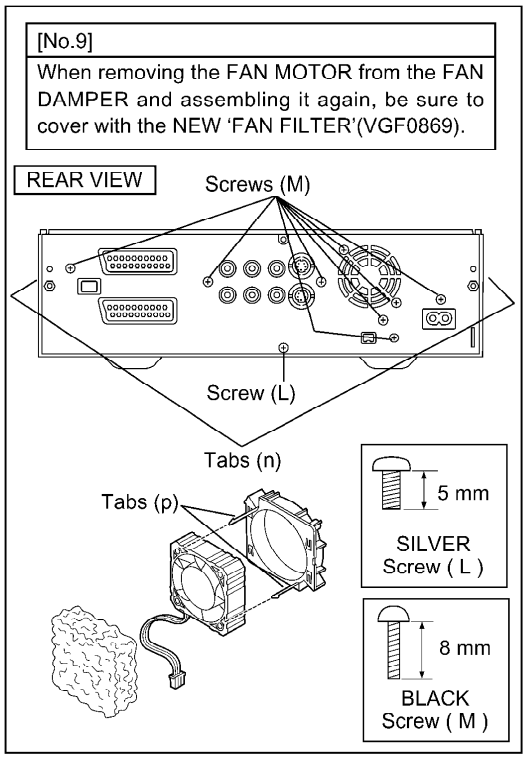

BOTTOM VIEW
1 mm
GOLD
Screw (J) (K)
Flexible Cable (I)
(FP5001)
Screws (K)
Screw (J)

Fig. D8



3.1.3. Assemble/ Disassemble Procedures of Slot-in Unit

3.1.3.1. Disassemble Section

Before proceeding the disassembling of the Slot-in unit, remove the mechanism unit from the chassis and remove the DIGITAL C.B.A. from the mechanism by referring the disassemble procedure describing in the previous section.

No.	ITEM/PART	FIGURE	REMARKS
11	SLOT-IN UNIT /MOTOR ANGLE/ WORM WHEEL	Fig. D9-1 Fig. D9-2	2-Screws (N-1) 4-Screws (N-2)
12	INTERMEDIATE GEAR	Fig. D10	1-Cut washer (q)
13	SYNCHRO - GEAR	Fig. D11	1-Hook (r)
14	OUTER SIDE PLATE-T	Fig. D12	4-Screws (O)
15	SUB RACK/T-MAIN RACK	Fig. D13	
16	INTERMEDIATE GEAR	Fig. D14	1-Cut washer (s)
17	GUARD BLOCK / SPINDLE SHAFT (I)	Fig. D15	Slide the guard block to arrow direction.

No.	ITEM/PART	FIGURE	REMARKS
18	OUTER SIDE PLATE-S	Fig. D16	2-Screws (P)
19	SUB RACK/S-MAIN RACK	Fig. D17	
20	TOP PLATE	Fig. D18	2-Screws (Q)
21	SIDE PLATE S& T/GUARD PANEL / CASSETTE HOLDER UNIT/FRONT GUIDE/ BLIND LEVER	Fig. D19	

Fig. D9-1

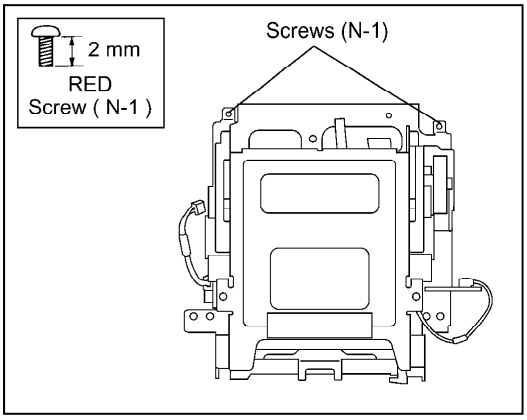


Fig. D9-2

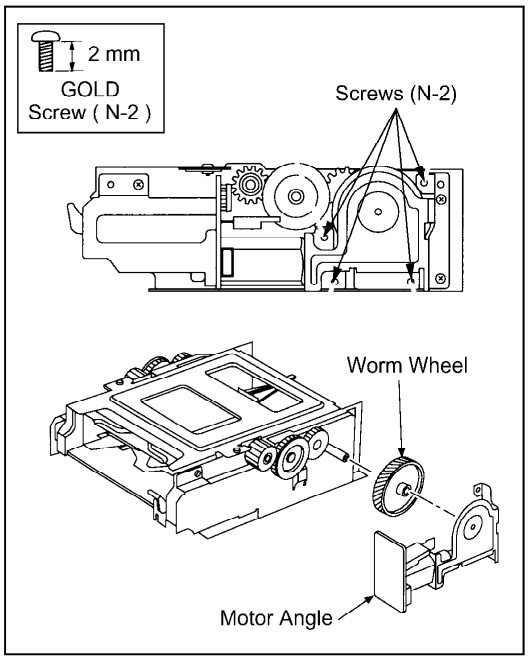


Fig. D10

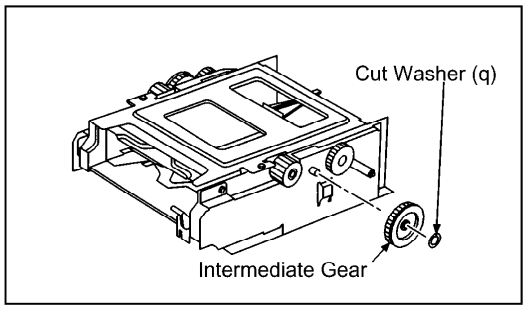


Fig. D11

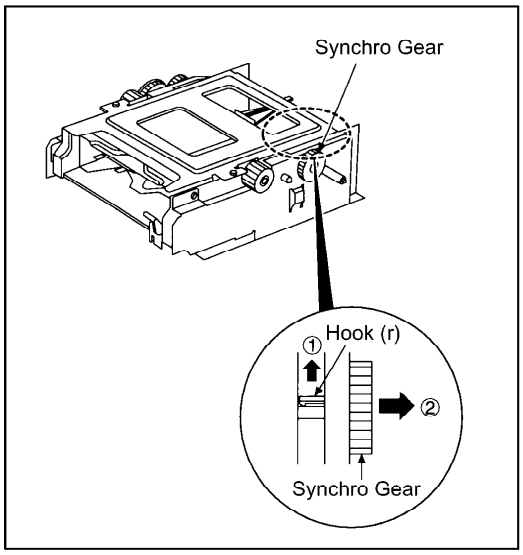


Fig. D12

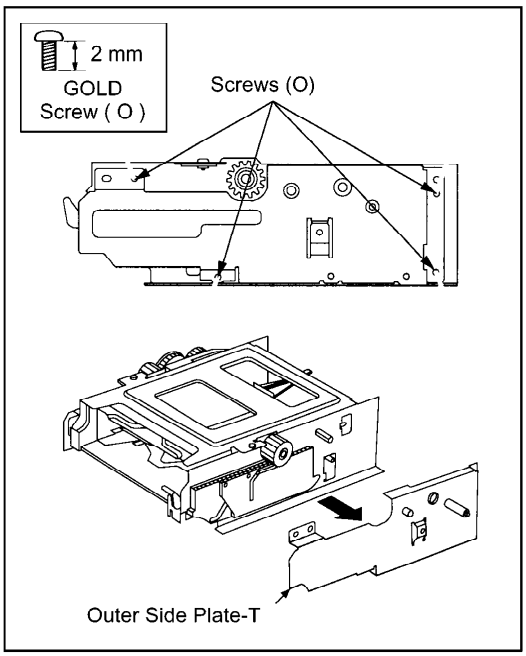


Fig. D13

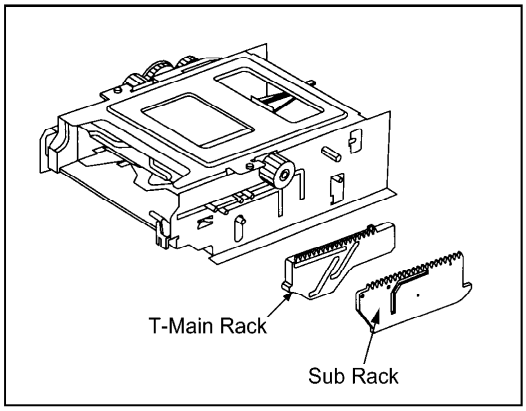


Fig. D14

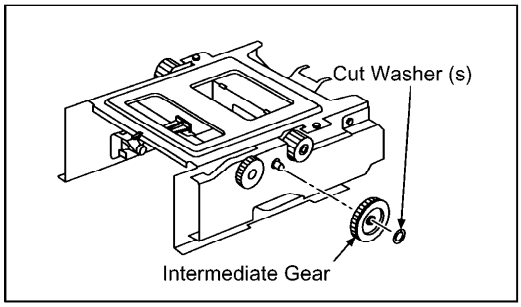


Fig. D15

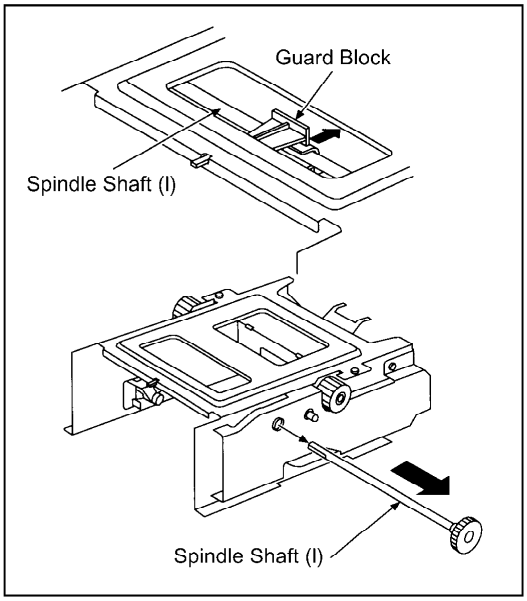


Fig. D16

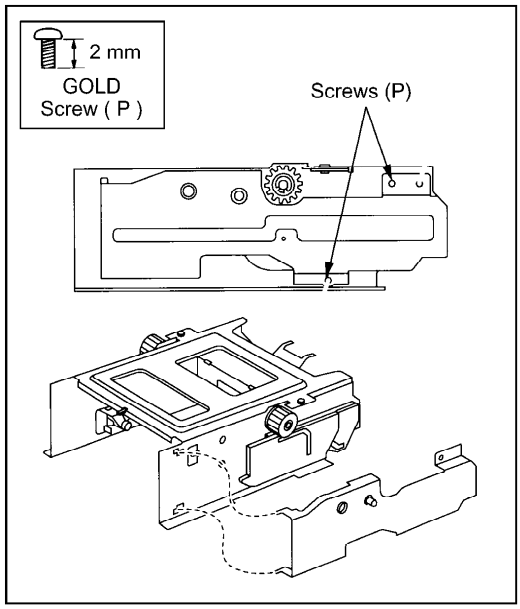


Fig. D17

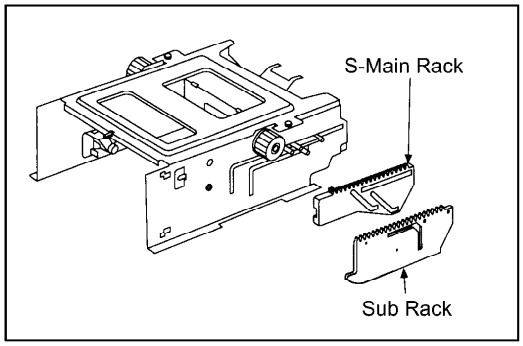


Fig. D18

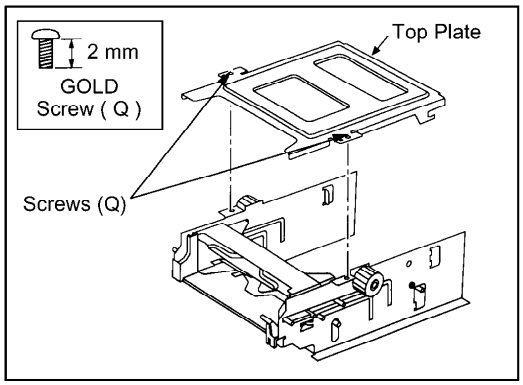
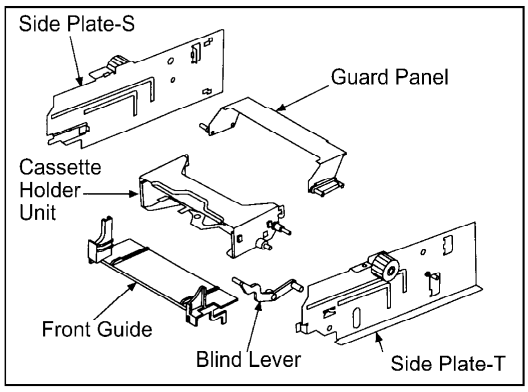


Fig. D19



3.1.3.2. Assemble Section

No.	ITEM/PART	FIGURE	REMARKS
22	FRONT GUIDE/SIDE PLATE-S	Fig. D20	Hook (t)
23	CASSETTE HOLDER UNIT/GUARD PANEL	Fig. D21	
24	"No.22" unit/ "No.23" unit	Fig. D22	4-Pins Upper groove Lower groove
25	SIDE PLATE-T/BLIND LEVER	Fig. D23	1-Pin 1-Hole
26	"No.24" unit/ "No.25" unit	Fig. D24	4-Pins Upper groove Lower groove ---------- Hook (u) Groove (v)
27	"No.26" unit/ TOP PLATE	Fig. D25	2-Hook (w) 2-Groove (x) ---------- 2-Screws (R)
28	"No.27" unit/S-MAIN RACK	Fig. D26 Fig. D27 Fig. D28	Gear Phase Alignment
29	"No.28" unit/ SUB RACK	Fig. D29	Gear Phase Alignment

No.	ITEM/PART	FIGURE	REMARKS
30	"No.29" unit/ OUTER SIDE PLATE-S	Fig. D30	2-Hook (y) 2-Groove (z) ---------- 2-Screws (S)
31	"No.30" unit/T -MAIN RACK	Fig. D31 Fig. D32 Fig. D33	Gear Phase Alignment
32	"No.31" unit/ SUB RACK	Fig. D34	Gear Phase Alignment
33	"No.32" unit/ OUTER SIDE PLATE-T	Fig. D35	4-Screws (T)
34	"No.33" unit/ SPINDLE SHAFT (I)	Fig. D36	
35	"No.34" unit/ SYNCHRO-GEAR	Fig. D37	1-Hook (a1) 1-Groove(a2)
36	"No.35" unit/ INTERMEDIATE GEAR	Fig. D38	2-Cut washer (a3) Gear Phase Alignment
37	"No.36" unit/ GUARD BLOCK	Fig. D39	
38	"No.37" unit/ MOTOR ANGLE/ WORM WHEEL	Fig. D40	4-Screws (U)

Fig. D20

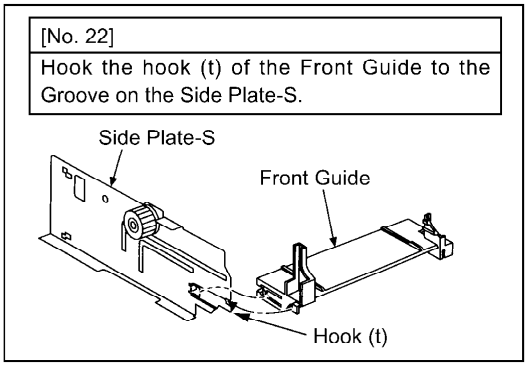


Fig. D21

[No. 23]

Mount the Guard Panel onto the Cassette Holder unit.

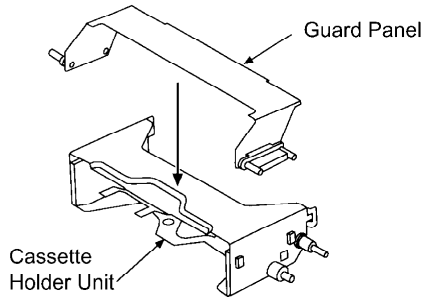


Fig. D22

[No. 24]

Insert 4 pins of “No.23 unit” to both upper and lower grooves of “No.22 unit”.

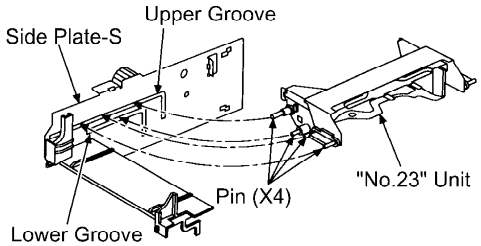


Fig. D23

[No. 25]

Connect the Blind lever to Side Plate-T.

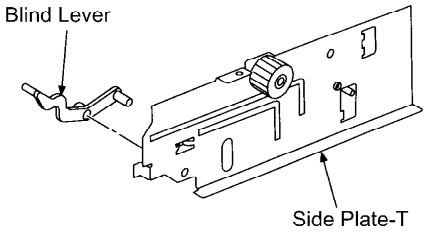


Fig. D24

[No. 26]

Insert 4 pins of “No.24” unit to both upper and lower grooves of “No.25” unit.

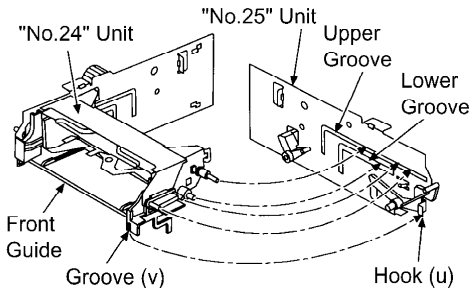


Fig. D25

[No. 27]

Mount and screw the Top plate to “No.26” unit with two screws (R).

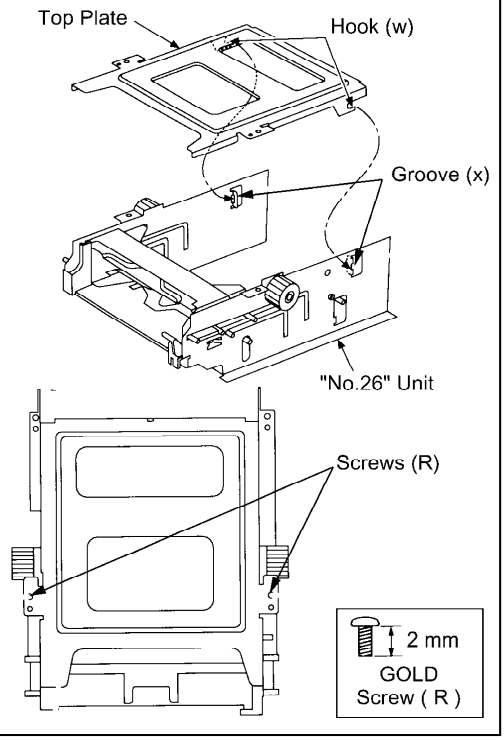


Fig. D26

[No. 28]-1

Set the 4 pins of "No.23" unit as shown below.
Be sure to install the S-Main Rack to "No.27 unit", Convex(A) must be met with Concure (B).

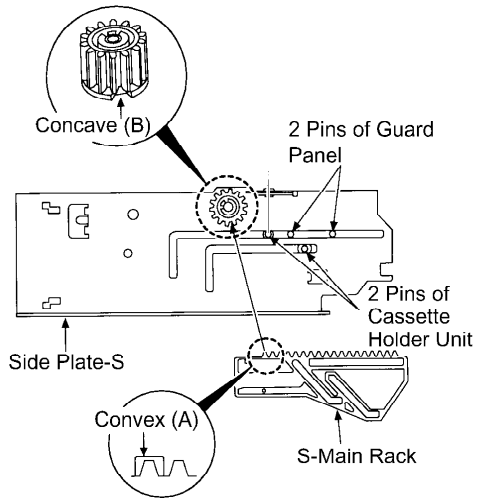


Fig. D27

[No. 28]-2

Confirm the position of each pin.

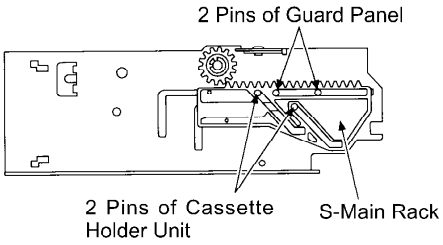


Fig. D28

[No. 28]-3

Slide the S-Main Rack to arrow direction, to align the hole of the Side Plate-S and hole of the S-Main Rack to be a through hole.

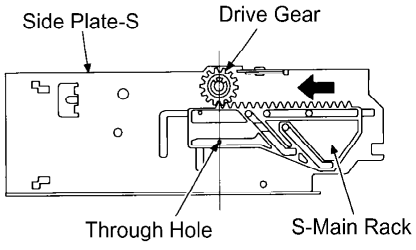


Fig. D29

[No. 29]

Install the Sub Rack to “No.28 unit”.
Align the hole of the Sub Rack and a through hole.
Screw the Sub Rack to Side Plate-S with 2 screws (S).

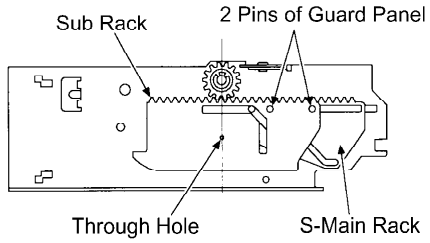


Fig. D30

[No. 30]

Install the Outer Side Plate-S to “No.29 unit”.
Hook the 2 hooks of the Outer Side Plate-S to two grooves of the Side Plate-S.

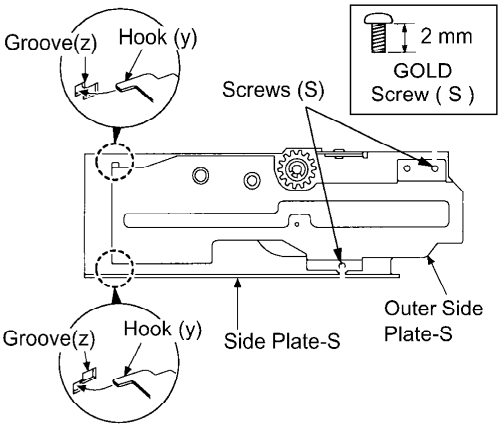


Fig. D31

[No. 31]-1

Set the 4 pins of “No.29 unit” as shown below.
Be sure to install the T-Main Rack to “No.29 unit”, Convex(C) must be met with Concave (D).

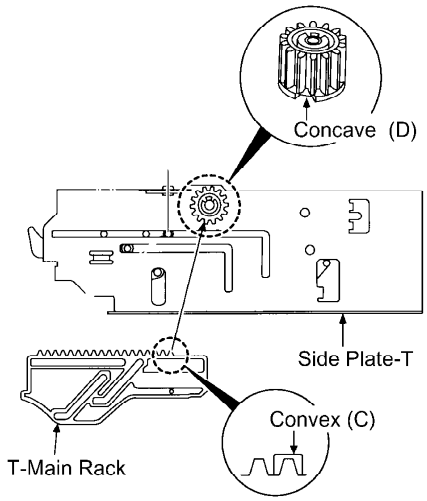


Fig. D32

[No. 31]-2

Confirm the position of each pin.

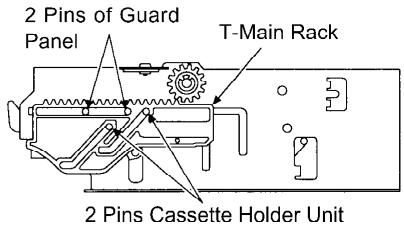


Fig. D33

[No. 31]-3

Install the T-Main Rack to “No.30 unit”.
Slide the S-Main Rack to arrow direction, to align the hole of the Side Plate-S and hole of the S-Main Rack to be a through hole.

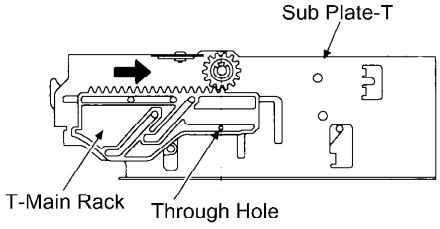


Fig. D34

[No. 32]

Install the Sub Rack to “No.31 unit”.
Align the hole of the Sub Rack and a through hole.

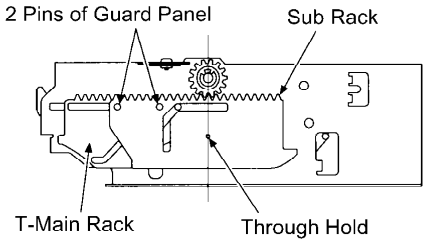


Fig. D35

[No. 33]

Install the Outer Side Plate-T to “No.32 unit”.
Screw the Sub Rack to Side Plate-T with 4 screws (T).

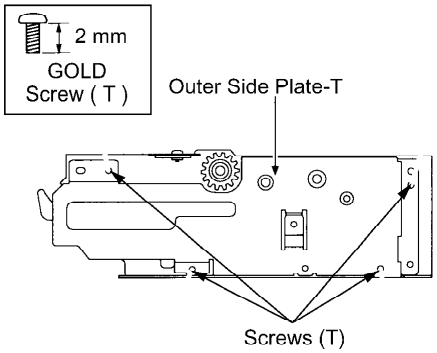


Fig. D36

[No. 34]

Install the Spindle Shaft (I) to “No.33” unit.

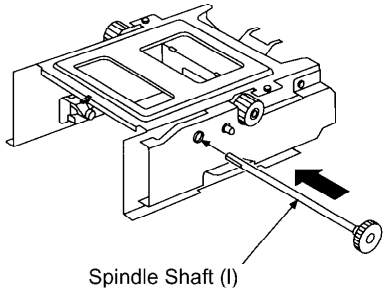


Fig. D37

[No. 35]

Be sure to install the Synchro-Gear to "No.34" unit, hook(a1) must be met with groove (a2).

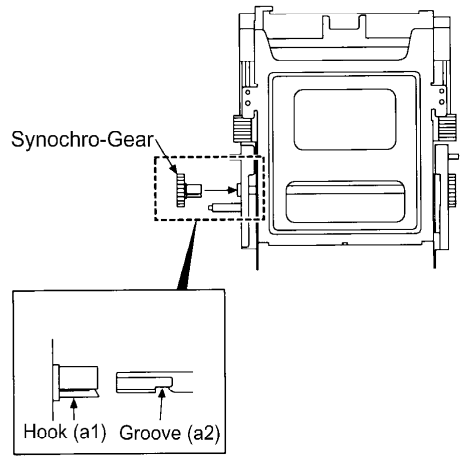
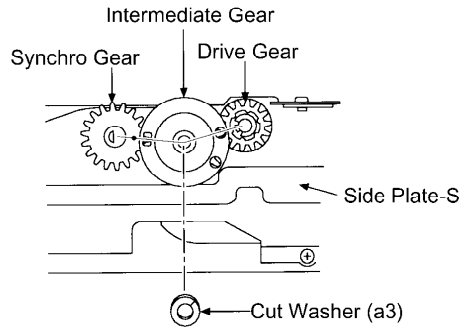


Fig. D38

[No. 36]

Install the Intermediate Gear to "No.35" unit. Align the 3 Gears phase and put the Cut-Washer (a3).

SIDE PLATE-S SIDE



SIDE PLATE-T SIDE

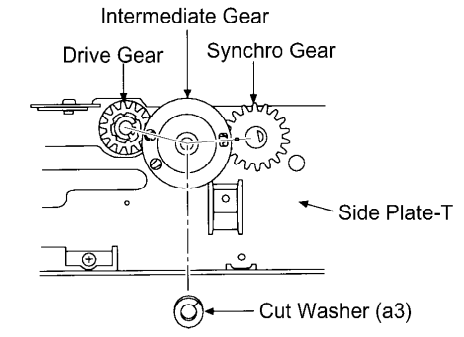


Fig. D39

[No. 37]

Install the Guard Block to Spindle Shaft (I).
Insert the tip of the Guard Block to the centre hole of the Top Plate.

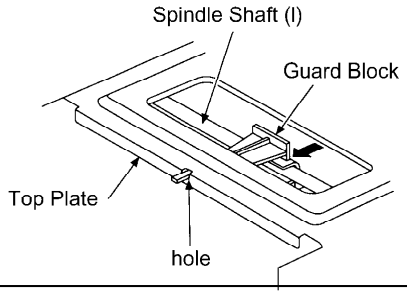
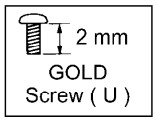
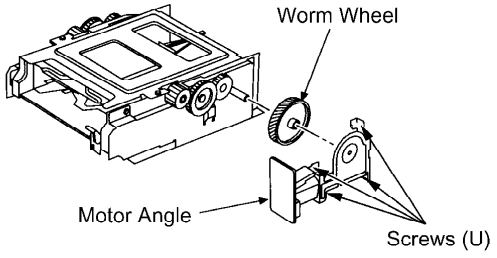


Fig. D40

[No. 38]

Install the Worm Wheel and Motor Angle to "No.37"unit.
Screw the Motor Angle Unit to Outer Side Plate-T with 4 screws(U).





3.2. MECHANICAL ADJUSTMENT

Adjustment procedures, Disassembly Procedures and Assembly Procedures for Mechanism Chassis are separated volume from this Service Manual.
Please Refer to the Service Manual for DJ-Mechanism Chassis.(VMD9706005A8)

3.3. ELECTRICAL ADJUSTMENT

As for this model, PC-EVR(Tatsujin) system is adopted for all Electrical Adjustments.
In achieving each adjustment, consult description in PC-EVR software for this model.
(All adjustments data is stored in IC2004 (EEPROM)).
Adjustment items are listed in the following table.

	Circuit/Section		Adjustment item	Major Relative Compone
ADJUSTMENT	AV	REC/PB	RF EQ/ VITERBI Adjustment	IC2004(EEPROM) DD Cylinder, Capstan Motor,Components on the Ta Transportation
		REC/PB	PG Shifter Adjustment	IC2004(EEPROM) DD-CYLINER, Components o Tape Transportation
	VIDEO	REC/PB	Video VCO Adjustment	IC2004(EEPROM)
		REC/PB	E-E Y Level Adjustment 1	IC2004(EEPROM)
		REC/PB	E-E Y Level Adjustment 2	IC2004(EEPROM)
		REC	Video-In (Y Level) Adjustment	IC2004(EEPROM)
		REC	Video-In (C Level) Adjustment	IC2004(EEPROM)
		PB	Playback Y Level Adjustment	IC2004(EEPROM)
		PB	Playback C Level Adjustment	IC2004(EEPROM)
		REC/PB	Horizontal Screen Position Adjustment	IC2004(EEPROM)
	AUDIO		Audio Level Meter Adjustment	IC2004(EEPROM)
	SYSTEM CONTROL		Tape End/Beg. Sensor Adjustment	IC2004(EEPROM)
OTHERS			All Ave/Fix data Saving	IC2004(EEPROM)
			All Ave/Fix data Overwriting	IC2004(EEPROM)
			Unit Unique ID Writing	IC2004(EEPROM)
			Function check	-----

Fig. E1 Electrical Adjustment item list

3.3.1. How To Connect The PC-EVR.

Refer to the following figure to connect the VCR unit (NV-DV2000) and PC (Personnel Computer). Before starting adjustment , confirm that all of the switch set to Normal Position.

No.	Part No.	Part Name	Qty
1	VFK1317	30 Pin Flat card	2
2	VFK1395	232C(M3) I/F Cable	1
3	VFK1409	Measuring Board	1
4	VFK1410	EVR Connection Board	1

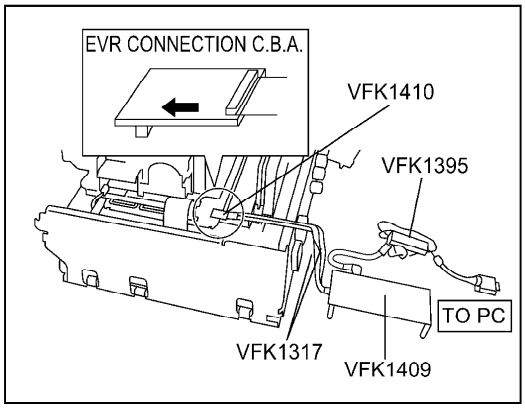
Fig. E2 Cable list for PC-EVR Adjustment

3.3.2. Measuring Equipment

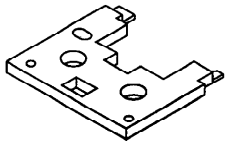
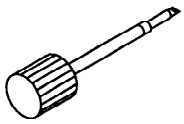
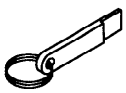
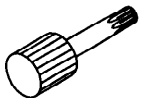
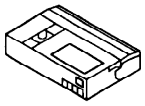
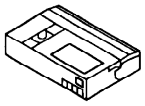
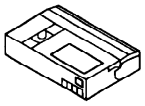
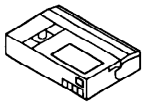
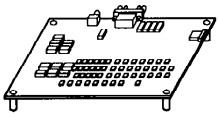
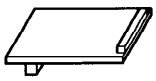
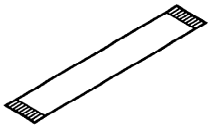
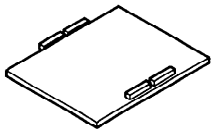
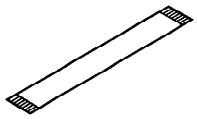
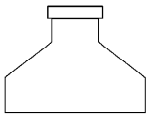
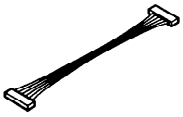
1. OSCILLOSCOPE
(0.005-5V/Div. DC-More than 60MHz)

2. FREQUENCY COUNTER
(0 - 50MHz)

Fig. E3 Necessary connection for PC& the unit



3.4. SERVICING FIXTURES& TOOLS

MECHANICAL/ELECTRICAL ADJUSTMENT			
VFK1281:Mechanism Plate 	VFK1278: Post Adjustment Driver 	VFK1279:Cap.Tilt Adj.Plate 	VFK1276: Loading Gear Driver 
VFK1426: 6% Sensor DV Cassette 	VFK1447Y: Y(50) DV Cassette 	VFK1447C : C (40) DV Cassette 	VFM3110EDS : PAL-DV Reference Cassette 
PC-EVR (TATSUJIN)/ ELECTRICAL ADJUSTMENT			
VFK1409 : Measuring Board 	VFK1410 : EVR Connection Board 	VFK1317 : 30Pin Flat Cable (2pcs) 	VFK1395 : 232C(M3) I/F Cable
EXTENSION CABLE			
VFK1507P: ANALOG Y/C Connection C.B.A. 	VFK1509:(36P),VFK1508:(35P), VFK1174:(30P),VFK1284:(24P), VFK1446:(32P),VFK1445:(26P), VFK1282:(22P),VFK1292:(9P). 	VFK1530 : (30P) 	VFK1527 : (3P), VFK1529 : (2P). 

4. ABBREVIATIONS

5. INPUT/OUTPUT CHART

5.1. INPUT/OUTPUT CHART FOR IC7501 [Timer Microprocessor]

PIN	NAME	I/O	DESCRIPTION
1	KEY 2	IN	KEY IN 2[STILL/AUDIO OUT/REC/SP,LP,ELP/STILL ALBUM]
2	KEY 1	IN	KEY IN 1[STOP/ST.SELECT/FF/3DNR/TBC]
3	VREFH	---	High-side Reference Voltage for A/D Converter.
4	VDD	---	VDD for Microprocessor [3V-5V]
5	OSC 2	OUT	Main clock output
6	OSC 1	IN	Main clock input
7	VSS	---	VDD for Microprocessor [0V]
8	X1	IN	Low speed clock input
9	XO	OUT	Low speed clock output
10	CM	IN	Chip mode select [Connect to GND]
11	GND	IN	GND
12	B/W(H)	OUT	Chrominance signal process for Playback video [High:B/W, Low:Colour]
13	COMB OFF (L)	OUT	Comb Filter switch [High:Comb turns ON, Low:Comb turns OFF]
14	SLEEP (L)	OUT	Power save control (FIP ON/OFF control (-29V ON/OFF) during Power off.) [High:FIP turns ON, Low:FIP turns OFF]
15	VPP	IN	Voltage pull down terminal
16	P67	OUT	FIP segment drive 0
17	P66	OUT	FIP segment drive 1
18	P65	OUT	FIP segment drive 2
19	P64	OT	FIP segment drive 3
20	P63	OUT	FIP segment drive 4
21	P62	OUT	FIP segment drive 5
22	P61	OUT	FIP segment drive 6
23	P60	OUT	FIP segment drive 7
24	P57	OUT	FIP segment drive 8
25	P56	OUT	FIP segment drive 9
26	P55	OUT	FIP segment drive 10
27	P54	OUT	FIP segment drive 11
28	P53	OUT	FIP segment drive 12
29	P52	OUT	FIP segment drive 13
30	P51	OUT	FIP segment drive 14
31	P50	OUT	FIP segment drive 15
32	P77	OUT	FIP digit drive 0
33	P76	OUT	FIP digit drive 1
34	P75	OUT	FIP digit drive 2
35	P74	OUT	FIP digit drive 3
36	P73	OUT	FIP digit drive 4
37	P72	OUT	FIP digit drive 5
38	P71	OUT	FIP digit drive 6
39	P70	OUT	FIP digit drive 7
40	P87	OUT	FIP digit drive 8
41	P86	OUT	FIP digit drive 9
42	P85	OUT	FIP segment drive 16:Segment 16 of all digits turn ON.
43	MIX LED	OUT	MIX Dubbing LED CONTROL: pull up to 5V (High:ON)
44	P83	OUT	FIP segment drive 17:Segment 17 of all digits turn ON.
45	P82	OUT	FIP segment drive 18:Segment 18 of all digits turn ON.
46	DNR OFF (H)	OUT	DNR Control terminal [Low:OPEN]
47	B/W (H)	OUT	B/W Control terminal [Low:OPEN]
48	128Hz	OUT	Reference Clock output for OSC-Freq.Control
49	AV1 PB (H)	OUT	21pin control (High:TV turns to video input mode) During Power-off, it orders to condition of AV2_PB(H).
50	GND	---	GND
51	TV (H)	OUT	It controls output signal from AV1 either signal from VCR or AV2 terminal.
52	AV2 OUT	OUT	It controls output signal from AV2 either signal from VCR or AV1 terminal.

PIN	NAME	I/O	DESCRIPTION
53	DV IN (H)	OUT	Signal process turns to Playback mode. [Only effective in EE mode]
54	OSD CS	OUT	Chip select terminal for Character Generator IC.[Low:Active]
55	GND	----	
56	WIDE (H)	OUT	It switch the TV mode either Video input or Wide screen mode.
57	RST (L)	IN	Reset terminal
58	EDIT SW	IN	Edit mode switch
59	S CLK	IN	Serial Clock [For System control]
60	S DATA IN	IN	Serial Data Input [For System Control]
61	S DATA OUT	OUT	Serial Data Output [For System Control]
62	OSD CLK	OUT	Serial Clock [For EDIT/OSD IC]
63	GND	---	Serial Data Input [For EDIT/OSD IC]
64	DATA OUT	OUT	Serial Data Output [For EDIT/OSD IC]
65	DV SW	IN	Input terminal for the Front/Rear DV Terminal [High:Rear Low:Front]
66	RELAY F(H)	IN	DV input selection [From Rear to Front : Output the One-shot pulse (100msec).] [From Front to Rear : Low] NOTE:After power failre, it orders condition of pin65.[pin65_Low:Front /High:Rear]
67	LERAY R (H)	IN	DV input selection [From Front to Rear : Output the One-shot pulse (100msec).] [From Rear to Front : Low] NOTE:After power failre, it orders condition of pin65.[pin65_Low:Front /High:Rear]
68	TBC (H)	OUT	Control terminal of the Line-in TBC (E-E TBC). [High:Line-in TBC ON Low:Line-in TBC OFF]
69	NC	---	N.C.
70	RGB OFF (H)	OUT	RGB output control terminal
71	QLINK ON (H)	OUT	Control terminal of pin10 of both AV1 and AV2 21pin terminal
72	EDIT SW	IN	Input terminal of the Editing mode select switch
73	OSD ON (H)	OUT	OSD ON/OFF control terminal
74	P33	IN	Power failre detection terminal
75	GND	---	GND
76	IR	IN	Input terminal of the comand of the Remote Controller
77	GND	---	GND
78	VREFL		Low-side Reference Voltage for A/D Converter.
79	AV2 PB (H)	IN	21pin control signal for AV2
80	GND	---	GND
81	AUDIO (R)	IN	Input terminal of the Audio level (R_CH)
82	AUDIO (L)	IN	Input terminal of the Audio level (L_CH)
83	EDIT SW 2	IN	Input terminal of the Editing mode select switch
84	KEY 3	IN	KEY IN 3[REW/PLAY/PRINT/IN SEL/EJECT/POWER]

5.2. INPUT/OUTPUT CHART FOR IC6001 [SYSCON/SERVO Microprocessor]

Pin No.	Name	I/O	Description	Initial	P.OFF
1	GND	--	GND	--	--
2	BUS_SELECT_A	O	Edit serial select	Low	Low
3	BUS_SELECT_B	O	Edit serial select	Low	Low
4	RESET	I	Reset	--	--
5	MOD0	I	Single chip mode set-up	--	--
6	MOD1	I	Single chip mode set-up	--	--
7	VDD	--	VDD	--	--
8	GND	--	GND	--	--
9	VDD(VPP)	--	VDD	--	--
10	VIDEO.EE(L)	O	EE/VV Select switch Low:E-E)	Low	Low
11	RA_STAB	O	REC current ON/OFF control for Head AMP	Low	Low
12	A_MUT(H)	O	Audio Mute [High:Mute]	High	High
13	MIX_VV(L)	O	MIX Dubbing Control	High	High
14	LSI_RST(H)	O	LSI_Reset command	Low	Low
15	CYL.ON(L)	O	Cylinder drive on low	High	High
16	CAP.T.LIM	O	Capstan torque limit	Low	Low
17	CAP.R/S/F	O	Capstan rotation direction control [R:Reverse/S:Stop/F: Forward]	I	I
18	GND	--	GND	--	--
19	OSCVDD	--	VDD for Oscillator	--	--
20	27MHz.IN	I	27MHz Input	--	--
21	27MHz.OUT	O	27MHz Output	--	--
22	OSCGND	--	GND for Oscillator	--	--
23	GND	--	GND	--	--
24	VDD	--	VDD	--	--
25	M_POS1	I	Mechanism position input 1	I	I
26	M_POS2	I	Mechanism position input 2	I	I
27	M_POS3	I	Mechanism position input 3	I	I
28	OPEN	I	Slot open detection	I	I
29	CLOSE	I	Slot close detection	I	I
30	DOWN	I	Slot down detection	I	I
31	S_TAB	I	Safety Tab detection	I	I
32	SNS_LED	O	Sensor LED control	Low	Low
33	M_LOAD	O	Mechanism Loading command	Low	Low
34	M_UNLOAD	O	Mechanism Unloading command	Low	Low
35	SOL_ON	O	Solenoid ON command	High	High
36	S_LOAD	O	Slot loading command	Low	Low
37	S_UNLOAD	O	Slot unloading command	Low	Low
38	S_LIMIT	O	Slot-in current limit control	Low	Low
39	V_CHANGE1	O	Slot-in voltage control 1	High	High
40	V_CHANGE2	O	Slot-in voltage control 2	High	High
41	VDD(VPP2)	--	VDD	--	--
42	GND	--	GND	--	--
43	VDD	--	VDD	--	--
44	INSEL_A	O	Input select 1	Low	Low
45	INSEL_B	O	Input select 2	Low	Low
46	INSIDE(H)	O	Output for C-level adjustment in Edit OSD	Low	Low
47	---	O	Output:Low_FIX [Flush writing terminal]	Low	Low
48	---	O	Output:Low_FIX [Flush writing terminal]	Low	Low
49	---	O	Output:Low_FIX [Flush writing terminal]	Low	Low
50	---	O	Output:Low_FIX [Flush writing terminal]	Low	Low
51	P_OFF(L)	O	POWER Switch ON/OFF	High	Low
52	VDD	--	VDD	--	--
53	GND	--	GND	--	--
54	CYL.FG	I	Cylinder FG input terminal	I	I
55	CAP.FG	I	Capstan FG input terminal [2 phase mixed]	I	I
56	TSR	I	Phase reference signal for HID1	I	I

Pin No.	Name	I/O	Description	Initial	P.OFF
57	HID1	I	Head switching signal	I	I
58	NC	I	N.C.	I	I
59	T_REEL	I	FG pulse input [From Take-up Reel]	I	I
60	S_REEL	I	FG pulse input [From Supply Reel]	I	I
61	NC	O	N.C.	Low	Low
62	OSD_SEL(H)	O	OSD select command	Low	Low
63	NC	O	N.C.	Low	Low
64	FRP	I	Frame Reference Signal	I	I
65	GND	--	GND	--	--
66	VDD	--	VDD	--	--
67	(CPU_WUPO-2)	O	Not used	Low	Low
68	CPU_ACKO-1	O	Communication completion [Syscon - LSI] (Com. process had been completed at Syscon side.)	Serial	Serial
69	EDIT.CLOCK	O	Clock for 5P_LANC serial communication	Serial	Serial
70	EDIT.DATA.OUT	O	Data output for 5P_LANC serial communication	Serial	Serial
71	EDIT.DATA.IN	I	Data input for 5P_LANC serial communication	Serial	Serial
72	CPU_RDY/CTS	O	Communication enable at Syscon side [Syscon - LSI]	High	Low
73	CPU_CLOCK	I	Clock for serial communication [Syscon-LSI]	Serial	Serial
74	CPU_DATA_OUT	O	Data output for serial communication [Syscon-LSI]	Serial	Serial
75	CPU_DATA_IN	I	Data input for serial communication [Syscon-LSI]	Serial	Serial
76	DATA_INH(L)	O	5P_data IN/OUT control	Low	Low
77	EDIT_OSD_CLK	O	Master Clock for serial communication [Syscon-Edit OSD]	Serial	Serial
78	EDIT.OSD.DATA.OUT	O	Data input for serial communication [Syscon-Edit OSD]	Serial	Serial
79	EDIT_OSD_CS	O	Chip_Select output for Edit OSD	High	High
80	EDIT_OSD_ON(L)	O	OSD Display control	Low	Low
81	SIRIAL._CLOCK	O	Master Clock for serial communication [Timer-Syscon]	Serial	Serial
82	S.DATA.OUT	O	Data output for serial communication [Timer-Syscon]	Serial	Serial
83	S.DATA.IN	I	Data input for serial communication [Timer-Syscon]	Serial	Serial
84	VDD	--	VDD	--	--
85	GND	--	GND	--	--
86	L_CLK	I	Input terminal for LANC_Clock	I	I
87	5P_CLK	I	Input terminal for 5P_Clock	I	I
88	INPUT(H)	O	IN/OUT serial communication direction switch	--	--
89	CPU_WUPI-1	I	Data Communication [Syscon-LSI]	I	I
90	SSP	I	Input terminal for Sector Start Pulse	I	I
91	---	I	Connect to GND through resister	I	I
92	CYL.ET	O	Cylinder Error Torque output [12bitPWM]	High	High
93	CAP.ET	O	Capstan Error Torque output [12bitPWM]	Mid	Mid
94	---	O	Test round [TL6002]	--	--
95	---	O	Test round [TL6003]	--	--
96	DRV.CLK	O	Clock for Cylinder Driver	Low	Low
97	MIC.DATA	I/O	Data line for MIC serial communication	Low	Low
98	MIC.CLK	O	Clock for MIC serial communication	Low	Low
99	(TM1_OK(H))	O	Confirmation for Timer serial clock [High:OK] 500usec/cycle	Low	--
100	(SMAIN_OK(H))	O	Confirmation for Syscon main routine [High:OK] 20msec/cycle	Low	--
101	GND	--	GND	--	--
102	VDD	--	VDD	--	--
103	MP C/R (L)	O	MP Tape control	--	--
104	MIC.ON(H)	O	Power supply ON/OFF for MIC	Low	Low
105	LCH(L)	O	Audio control for L channel (L)	Low	Low
106	RCH(L)	O	Audio control for L channel (R)	Low	Low
107	---	I	Connect to GND through Resister	I	I
108	L_CLK_CNT	I	LANC Clock Control Terminal	I	I
109	S2_ON	O	Output terminal for Photo adjustment	--	--
110	S1_ON	O	Output terminal for Photo adjustment	--	--
111	T2_ON	O	Output terminal for Photo adjustment	--	--

Pin No.	Name	I/O	Description	Initial	P.OFF
112	T1_ON	O	Output terminal for Photo adjustment	--	--
113	AGND	--	GND for Analogue	--	--
114	NTSC(L)/PAL(H)	I	GND NTSC	I	I
115	S_TEST	I	Not used	I	I
116	NC	I	Connect to GND	I	I
117	---	I	Not used (Connect to GND through resister)	I	I
118	NC	I	Connect to GND	I	I
119	NC	I	Connect to GND	I	I
120	NC	I	Connect to GND	I	I
121	S.PHOTO	I	Input terminal for S_Photo sensor [High : Lead Tape]	I	I
122	T.PHOTO	I	Input terminal for T_Photo sensor [High : Lead Tape]	I	I
123	NC	I	NC	I	I
124	MIC.AD3	I	A/D input_3 terminal for MIC	I	I
125	MIC.AD2	I	A/D input_2 terminal for MIC	I	I
126	MIC.AD1	I	A/D input_1 terminal for MIC	I	I
127	VDD	--	VDD reference for Analogue	--	--
128	AVDD	--	VDD for Analogue	--	--
129	VDD2	--	VDD for Bus	--	--
130	GND	--	GND	--	--
131	VSYNC(L)	I	Vsync input [Low:No_Sync] [Timer Channel search data]	I	I
132	---	O	Test round	--	--
133	---	I	Connect to GND through resistor (47K ohm)	I	I
134	FAN	I	FAN rotation detect	I	I
135	NC	I	Not used	I	I
136	NC	-	Not used	--	--
137	NC	-	Not used	--	--
138	NC	-	Not used	--	--
139	NC	-	Not used	--	--
140	NC	-	Not used	--	--
141	NC	-	Not used	--	--
142	NC	-	Not used	--	--
143	NC	-	Not used	--	--
144	NC	-	Not used	--	--
145	NC	-	Not used	--	--
146	NC	-	Not used	--	--
147	NC	-	Not used	--	--
148	NC	-	Not used	--	--
149	NC	-	Not used	--	--
150	NC	-	Not used	--	--
151	NC	-	Not used	--	--
152	NC	-	Not used	--	--
153	NC	-	Not used	--	--
154	NC	-	Not used	--	--
155	GND	--	GND	--	--
156	VDD	--	VDD for Bus	--	--

5.3. INPUT/OUTPUT CHART FOR IC2001 [LSI Microprocessor]

Pin No	Name	I/O	Description	INIT
1	VSS	--	GND	--
2	HLDA	O	Ext-Bus Hold Acknowlede /BST TCK(CLK)	--
3	HOLD	I	Ext-Bus Hold Request	--
4	RESET	I	Reset	--
5	MOD0	I	Single Chip Mode = Vss Vss	--
6	MOD1	I	Memory Extend Mode = Vss Vcc	--
7	VCC	--	VDD	--
8	VSS	--	GND	--
9	VCC	--	VDD	--
10	NC	O	Test round (TL18)	L
11	CPN(L)	I	Component signal Input Low	L
12	NC	O	NC (TL27)	L
13	CPN(H)	O	CPN(L) inverse output / EVR switch	L
14	NC	O	NC (TL30)	L
15	NC	O	NC (TL32)	L
16	L_TEST	I	EVR TEST MODE(L)	H
17	SYNC_OFF	O	L:Sync Gate Off H:Sync Gate On	L
18	VSS	--	GND	--
19	OSC VCC	--	(L_Vcc)	--
20	X IN	I	27MHz output	--
21	X OUT	O	27MHz input	--
22	OSC VSS	--	GND for Oscillator	--
23	VSS	--	GND	--
24	VCC	--	VDD	--
25	A_MUT	O	AUDIO MUTE	H
26	NC	O	N.C.	L
27	NC	O	NC (TL4)	L
28	NC	O	NC (TL5)	L
29	SYS_VIDEO_EE	I	SYSCON EE/VV SWITCH	L
30	NC	O	NC	L
31	VIDEO_EE(L)	O	I/O Pack EE/VV switch	L
32	NC	O	NC (TL9)	L
33	EEMUTE	O	EE MUTE	H
34	COMRDY	O	RS-232C Microprocessor Ready command	L
35	YC_CS	O	Chip Select for YC Microprocessor	H
36	NC	O	NC	L
37	CTL_27M	O	Control circuit for Clock Change circuit	L
38	NC	O	N.C.	L
39	NC	O	NC (TL16)	L
40	NC	O	NC (TL17)	L
41	VCC	--	VDD (N.SW 3V)	--
42	VSS	--	GND	--
43	VCC	--	VDD	--
44	CPU_ACKI-1	I	Communication completion [Syscon - LSI] (Com. process had been completed at LSI side.)	H
45	CPU_WUPO-1	0	Communication request [Syscon - LSI] (Data request to Syscon)	L
46	RST_LSI	O	Reset for IC3001(DVIO)/IC3003(CAS)/IC3201(EDA)	L
47	L_SCLK	I	for FLASH CLK	H
48	L_SDA	I	for FLASH DATA IN	H
49	RST_DIF	O	DIF LSI Reset	L
50	L_OE	I	for FLASH WRITE OE	H
51	NC	O	NC	L
52	VCC	--	VDD	--
53	VSS	--	GND	--
54	NC	O	NC (TL21)	L

Pin No	Name	I/O	Description	INIT
55	NC	O	NC (TL22)	L
56	TSR	I	Track Start Refference	H
57	HID	I	HSW	H
58	NC	O	NC (TL23)	L
59	CYL_FG	I	Cylinder FG	L
60	CYL_PG	I	Cylinder PG	L
61	SPA	I	SPA	L
62	AFRP	I	AFRP	L
63	MCVS	I	MCVS	L
64	FRP	I	Frame reference pulse	L
65	VSS	--	GND	--
66	VCC	--	VDD	--
67	NC	O	NC (TL26)	L
68	COM_RST	O	RS232C RESET	H
69	COM_CLK	I	RS232C CLK IN	H
70	COM_DATA_OUT	O	RS232C SERIAL-DATA OUT	H
71	COM_DATA_IN	I	RS232C SERIAL-DATA IN	L
72	RDY_CTS	I	Communication enable at Syscon side [Syscon - LSI]	H
73	CPU_CLK	O	Clock for serial communication [Syscon-LSI]	H
74	CPU_DATA_OUT	O	Data output for serial communication [Syscon-LSI]	H
75	CPU_DATA_IN	I	Data input for serial communication [Syscon-LSI]	H
76	NC	O	NC (TL47)	L
77	YC_CLOCK	O	YC MICON Serial Clock	H
78	L_YC_DO	O	YC MICON Data out	H
79	L_YC_DI	I	YC MICON Data in	L
80	NC	O	NC (TL37)	L
81	DCS_CLK	O	CAS(IC3003) & DVIO(IC3001) Serial Clock	H
82	DCS_DO	O	CAS(IC3003) & DVIO(IC3001) Serial Data Out	H
83	DCS_DI	I	CAS(IC3003) & DVIO(IC3001) Serial Data In	L
84	VCC	--	VDD	--
85	VSS	--	GND	--
86	SSP	I	Sector Start Pulse	L
87	NC	O	NC (TL29)	L
88	DIF_INT	I	Digital Interface IF	L
89	NC	O	NC (TL14)	L
90	NC	O	NC (TL31)	L
91	NMI	I	Pull-up	--
92	NC	O	NC	L
93	NC	O	NC	L
94	V_PLL	O	Video PLL	H
95	FS_PLL	O	FS PLL(ATF ERR for Linear arrangement)	H
96	NC3	O	NC	L
97	V_SYNC(L)	I	Prevention of REC V-dansing	H
98	NC1	O	NC (Reserved terminal)	L
99	EE_CLK	O	Clock output terminal for EEPROM & DAC	H
100	EE_DI	I	EEPROM & DAC data input	H
101	VSS	--	GND	--
102	VCC	--	VDD	--
103	EE_DO	O	EEPROM & DAC data output	H
104	EE_CS	O	Chip Select for EEPROM	H
105	NC	O	NC	L
106	DAC_LD	O	DAC Load	H
107	DCS_STP1	O	DVIO(IC3001) Serial Strobe Pulse	H
108	DCS_STP2	O	CAS(IC3003) Serial Strobe Pulse	H
109	NC	O	NC (TL33)	L
110	NC	O	NC (TL34)	L

Pin No	Name	I/O	Description	INIT
111	NC	O	NC (TL35)	L
112	NC	O	NC (TL36)	L
113	AVSS	--	GND	--
114	NC	I	GND	--
115	NC	I	GND	--
116	NC	I	GND	--
117	NC	I	GND	--
118	NC	I	GND	--
119	NC	I	GND	--
120	NC	I	GND	--
121	NC	I	GND	--
122	NC	I	GND	--
123	NC	I	GND	--
124	NC	I	GND	--
125	NC	I	GND	--
126	NC	I	GND	--
127	AVREF	--	Regerence voltage	--
128	AVCC	--	VDD	--
129	VCC2	--	VDD (2V)	--
130	VSS	--	GND for pin130_(2V)	--
131	NC	O	NC	L
132	BCLK	O	u-com clock output terminal	--
133	DC	I	Data Complete for Ext-Memory mode	L
134	R/W	O	NC (TL12)	L
135	ALE	O	Address Latch Enable for Ext-Memory mode	L
136	RD	O	Read Strobe for Ext-Memory mode	L
137	BLW	O	Byte Low Write for Ext-Memory mode	L
138	BHW	O	NC (TL13)	L
139	DT15	I/O	EXT-Memory Address/Data BUS	--
140	ADDT14	I/O	EXT-Memory Address/Data BUS	--
141	ADDT13	I/O	EXT-Memory Address/Data BUS	--
142	ADDT12	I/O	EXT-Memory Address/Data BUS	--
143	ADDT11	I/O	EXT-Memory Address/Data BUS	--
144	ADDT10	I/O	EXT-Memory Address/Data BUS	--
145	ADDT9	I/O	EXT-Memory Address/Data BUS	--
146	ADDT8	I/O	EXT-Memory Address/Data BUS	--
147	ADDT7	I/O	EXT-Memory Address/Data BUS	--
148	ADDT6	I/O	EXT-Memory Address/Data BUS	--
149	ADDT5	I/O	EXT-Memory Address/Data BUS	--
150	ADDT4	I/O	EXT-Memory Address/Data BUS	--
151	ADDT3	I/O	EXT-Memory Address/Data BUS	--
152	ADDT2	I/O	EXT-Memory Address/Data BUS	--
153	ADDT1	I/O	EXT-Memory Address/Data BUS	--
154	ADDT0	I/O	EXT-Memory Address/Data BUS	--
155	VSS	--	GND for pin156_(2V)	--
156	VCC2	--	VDD (2V)	--

6. WAVEFORM TABLE

7. INTERNAL BLOCK OF ICs

7.1. IC4701 (D78011FGCVBB)

VIDEO SECTION IN MAIN SCHEMATIC DIAGRAM

7.2. IC3003 (MN67373)

DIGITAL (VIDEO 1 SECTION) SCHEMATIC DIAGRAM

7.3. IC3006 (M52684AFP)

DIGITAL (VIDEO 1 SECTION) SCHEMATIC DIAGRAM

7.4. IC4501 (AK4520A-VF)

DIGITAL (VIDEO 1 SECTION) SCHEMATIC DIAGRAM

7.5. IC3204 (AD9057BRS-60)

DIGITAL (VIDEO 2 SECTION) SCHEMATIC DIAGRAM

7.6. IC2002 (M62370)

DIGITAL (LSI MICON SECTION) SCHEMATIC DIAGRAM

7.7. IC30002 (TC9090AF)

ANALOG Y/C SCHEMATIC DIAGRAM

7.8. IC30006 (TC90A11F)

ANALOG Y/C SCHEMATIC DIAGRAM

8. BLOCK DIAGRAMS

8.1. SYSTEM CONTROL& SERVO SECTION BLOCK DIAGRAM

8.2. VIDEO SECTION BLOCK DIAGRAM

9. SCHEMATIC DIAGRAMS

9.1. POWER SECTION IN MAIN SCHEMATIC DIAGRAM

9.2. VIDEO SECTION IN MAIN SCHEMATIC DIAGRAM

9.3. AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM

9.4. RF I/F SECTION IN MAIN SCHEMATIC DIAGRAM

9.5. DIGITAL (SYSTEM CONTROL& SERVO SECTION) SCHEMATIC DIAGRAM

9.6. DIGITAL (VIDEO 1 SECTION) SCHEMATIC DIAGRAM

9.7. DIGITAL (VIDEO 2 SECTION) SCHEMATIC DIAGRAM

9.8. DIGITAL (LSI MICON SECTION) SCHEMATIC DIAGRAM

9.9. DIGITAL (DIGITAL I/F SECTION) SCHEMATIC DIAGRAM

9.10. HEAD/ REC AMP SCHEMATIC DIAGRAM

9.11. INPUT/OUTPUT SCHEMATIC DIAGRAM

9.12. ANALOG Y/C SCHEMATIC DIAGRAM

9.13. TIMER SCHEMATIC DIAGRAM

10. CIRCUIT BOARD ASSEMBLIES

10.1. MAIN C.B.A. (VEP06D55A)

10.2. DIGITAL C.B.A. (VEP03F39A)

10.3. HEAD/ REC AMP C.B.A. (VEP05352A)

10.4. SUB POWER C.B.A. (VEP01868A)

10.5. DV JACK C.B.A. (VEP07A04A)

10.6. MOTOR C.B.A. (VEP000D5B)

10.7. SWITCH C.B.A. (VEP000D6A)

10.8. INPUT/OUTPUT C.B.A. (VEP03F40A)

10.9. ANALOG Y/C C.B.A. (VEP03F41A)

10.10. TIMER C.B.A. (VEP07A24A)

11. EXPLODED VIEWS

11.1. CASING PARTS SECTION

11.2. CHASSIS PARTS SECTION (1)

11.3. CHASSIS PARTS SECTION (2)

11.4. PACKING PARTS SECTION

12. REPLACEMENT PARTS LIST

12.1. MECHANICAL REPLACEMENT PARTS LIST

Note: 1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

12.1.1. CASING PARTS SECTION

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
1 (1)	VGM1625	TOP PANEL	1	
2 (1)	VKC0295	PCB SPACER	4	
3 (1)	VKF3097	LEG COVER	1	
5 (1)	VGQ5336	MECHA SUPPORT	1	
6 (1)	VMT0317	CUSHION	1	
7 (1)	VJR3	CLAMPER	1	
8 (1)	VMZ3027	BARRIER (DW)	1	⚠
9 (1)	VMZ3028	BARRIER 2 (UP)	1	⚠
10 (1)	VMP6312	REAR PANEL	1	
11 (1)	VGQ5509	DV HOLDER	1	
12 (1)	VGQ5345	FAN DAMPER	1	
13 (1)	VRF0227	FAN MOTOR	1	
14 (1)	VXA6376	ANGLE (R) UNIT	1	
15 (1)	VXA6377	ANGLE (L) UNIT	1	
16 (1)	VYF2678	DOOR U	1	
17 (1)	VKF3095	BLINDER PANEL	1	
18 (1)	VMB3333	BLINDER SPRING	1	
19 (1)	VYP7648	FRONT PANEL UNIT	1	
20 (1)	LSKA0008	RUBBER LEG	4	
21 (1)	VMX2983	METAL SPACER	4	
22 (1)	VGF0869	FAN FILTER	1	
23 (1)	VEE0H21	WIRE CABLE (6P)	1	P7651-P7602
24 (1)	VEE0H20	WIRE CABLE (6P)	1	P3701-P7601
25 (1)	VEE0H23	WIRE CABLE (3P)	1	P6001-P1502
26 (1)	VEE0K51	WIRE CABLE (2P)	1	P6002-P1501
27 (1)	VSQ0687	FERRITE CORE	2	
28 (1)	VMT0442	SPONGE MAT	2	
36 (1)	VMC1534	EARTH SPRING	2	
42 (1)	VWJ1310	FLAT CARD CABLE (32P)	1	P7502-P7901
43 (1)	VWJ1309	FLAT CARD CABLE (26P)	1	P7501-P7902
44 (1)	VWJ1306	FLAT CARD CABLE (36P)	1	FP3401-FP3201
45 (1)	VWJ1307	FLAT CARD CABLE (32P)	1	FP3402-FP3202
46 (1)	VWJ1306	FLAT CARD CABLE (36P)	1	FP6201-FP6002
B1 (1)	XTB3+8JFZ	SCREW	2	
B2 (1)	XTW3+8M	SCREW	4	
B3 (1)	SNE2129	SCREW	2	
B4 (1)	XQN16+B4FZ	SCREW	1	
B5 (1)	XTN26+6G	SCREW	2	
B6 (1)	XTN26+8GR	SCREW	6	
B7 (1)	XTV3+35JR	SCREW	1	
B8 (1)	XTV3+6FR	SCREW	2	
B9 (1)	XYE3+EF6FNNC	SCREW	3	
B10 (1)	XTB3+6FFC	SCREW	4	
B11 (1)	XTB3+8GFZ	SCREW	5	

12.1.2. CHASSIS PARTS SECTION (1)

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
100 (2)	VMA0C20	SUB SHASSIS	1	
102 (2)	VMG1250	DAMPER	3	
105 (2)	VEE0H23	WIRE CABLE (3P)	1	P6001-P1502
150 (2)	VEG1509	CYLINDER UNIT	1	
151 (2)	VEM0624	CAPSTAN MOTOR UNIT	1	
152 (2)	VSC4639	HEAD AMP SHIELD CASE	1	
153 (2)	VES0914	FLEXIBLE CABLE	1	
154 (2)	VMA9176	CAPSTAN COVER	1	
155 (2)	VMA9179	RADON PLATE	1	
156 (2)	VMA9753	BRUSH ARM STOPPER	1	
157 (2)	VMB2777	CAPSTAN ADJ. SPRING	1	
158 (2)	VMD2373	RAIL	1	
159 (2)	VSC4640	SHIELD CASE	1	
160 (2)	VSR0114	MODE SWITCH	1	
161 (2)	VXA5407	CAM GEAR UNIT	1	
162 (2)	VXA5409	S BOAT UNIT	1	
163 (2)	VXA5410	T BOAT UNIT	1	
164 (2)	VXA5417	GEAR BOX (LOADING MOTOR)	1	
165 (2)	VXA5612	RADON COVER UNIT	1	
166 (2)	VXL2461	T2 ARM UNIT	1	
167 (2)	VXL2468	CLEANING ARM UNIT	1	
168 (2)	VXL2470	S1 ARM UNIT	1	
169 (2)	VXL2471	T1 ARM UNIT	1	
B100 (2)	XSN2+3R	SCREW	2	
B102 (2)	XQN16+CJ3	SCREW	2	
B103 (2)	VHD1297	SCREW	3	
B104 (2)	XTN2+4F	SCREW	2	
B105 (2)	XYN2+E5FN	SCREW	2	
B106 (2)	XSB2+4	SCREW	2	
B150 (2)	XQN14+BQ4	SCREW	2	
B151 (2)	XQN14+B35	SCREW	2	
B152 (2)	XQN14+B4	SCREW	2	
B153 (2)	XQN14+B4FZ	SCREW	1	
B154 (2)	VHD0882	SCREW	2	
B155 (2)	VHD0989	SCREW	2	
B156 (2)	VHD0878	SCREW	1	
B158 (2)	XQN14+B15	SCREW	5	
B160 (2)	XQN14+B15	SCREW	3	
B161 (2)	VXQ0439	SCREW	3	
B162 (2)	XQN14+B15	SCREW	1	
W150 (2)	VMX2027	WASHER	2	

12.1.3. CHASSIS PARTS SECTION (2)

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
200 (3)	VDG1342	DRIVE GEAR	2	
201 (3)	VDG1343	T MAIN RACK	1	
202 (3)	VDG1344	S MAIN RACK	1	
203 (3)	VDG1345	SUB RACK	2	
204 (3)	VDG1346	INTERMEDIATE GEAR	2	
205 (3)	VDG1347	WORM WHEEL GEAR	1	
206 (3)	VDG1348	SYNCHRO GEAR	1	
207 (3)	VMD3556	FRONT GUIDE	1	
208 (3)	VMD3704	GUARD BLOCK	1	
209 (3)	VML3423	BLIND LEVER	1	
210 (3)	VXA6392	CASSETTE HOLDER	1	
211 (3)	VXA6395	GUARD PANEL	1	
212 (3)	VXA6396	SIDE PLATE (T)	1	
213 (3)	VXA6398	OUTER SIDE PLATE (T)	1	
214 (3)	VXA6400	SIDE PLATE (S)	1	
215 (3)	VXA6402	OUTER SIDE PLATE (S)	1	
216 (3)	VDG1264	WORM GEAR	1	
217 (3)	VMA0C28	MOTOR ANGLE	1	
218 (3)	VMD3555	THRUST SPINDLE HOLDER	1	
219 (3)	VXA6743	LOADING MOTOR	1	
220 (3)	VXA6406	SPINDLE SHAFT (1)	1	
221 (3)	VXA6480	TOP PLATE	1	
250 (3)	VDG1445	DRIVE PULLEY	1	
251 (3)	VDG1031	CENTER PULLEY	1	
252 (3)	VDG1032	SENSOR GEAR	1	
253 (3)	VDV0265	TIMING BELT	1	
254 (3)	VMA9178	PINCH PRESSURE PLATE	1	
255 (3)	VMA9181	BRAKE ROD SUPPORT (T)	1	
256 (3)	VMB2776	SPRING	1	
257 (3)	VSH0067	MIC SWITCH	1	
258 (3)	VSJ0114	SOLENOID	1	
259 (3)	VXA5401	BRAKE ROD UNIT	1	
260 (3)	VXA5408	T3 ROD UNIT	1	
261 (3)	VXA5411	LED HOLDER UNIT	1	
262 (3)	VXA6576	COVER PLATE UNIT	1	
263 (3)	VXL2454	P IDLER ARM UNIT	1	
264 (3)	VXL2455	FR IDLER ARM UNIT	1	
265 (3)	VXL2456	TENSION ARM UNIT	1	
266 (3)	VXL2462	T3 ARM UNIT	1	
267 (3)	VXL2464	PINCH ARM UNIT	1	
268 (3)	VXL2466	EJECT ARM UNIT	1	
269 (3)	VXL2732	PAD ARM UNIT	1	
270 (3)	VXR0355	SUPPLY REEL TABLE	1	
271 (3)	VXR0356	TAKE UP REEL TABLE	1	
272 (3)	VXZ0319	TAKE UP MAIN BRAKE	1	
273 (3)	VXZ0321	SUPPLY MAIN BRAKE	1	
274 (3)	VXZ0322	FF BRAKE UNIT	1	
275 (3)	VXZ0441	REV BRAKE UNIT	1	
B200 (3)	XTN2+3F	SCREW	12	
B201 (3)	XQN2+A14	SCREW	2	
B250 (3)	VHD0883	SCREW	4	
B251 (3)	XQN14+B15	SCREW	2	
B252 (3)	XQN14+B35	SCREW	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
B253 (3)	VHD0884	SCREW	1	
B254 (3)	XQN14+B35	SCREW	2	
B255 (3)	VHD0883	SCREW	1	
W200 (3)	VMX0653	WASHER	2	
W250 (3)	VMX2027	WASHER	1	
W251 (3)	VMX2394	WASHER	1	
W252 (3)	VMX2503	WASHER	1	
W253 (3)	VMX2028	WASHER	1	
W254 (3)	VMX2504	WASHER	1	
W255 (3)	VMX2400	WASHER	1	

12.1.4. PACKING PARTS SECTION

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
300 (4)	EUR571507	EDIT CONTROLLER	1	
301 (4)	UR57EC614B	BATTERY COVER	1	
302 (4)	VJA0787	EDIT CABLE	1	
303 (4)	VJA0658	S-VIDEO CABLE	1	
304 (4)	VJA1012	DV CABLE	1	
305 (4)	VJA0788	AV CABLES	1	
306 (4)	VFK1451	DIGITAL VIDEO HEAD CLEANER	1	
307 (4)	VJA0754	AC CORD	1	⚠
307 (4)	VJA0940	AC CORD	1	⚠
307 (4)	VJA1039	AC CORD	1	⚠
308 (4)	VJP2974	AC PLUG ADAPTOR	1	⚠
309 (4)	VPK2338	ACCESSORIES PACKING	1	
310 (4)	VQT8649	OPERATING INSTRUCTION	1	⚠
		(ENGLISH)		
310 (4)	VQT8650	OPERATING INSTRUCTION	1	⚠
		(GERMAN)		
310 (4)	VQT7651	OPERATING INSTRUCTION	1	⚠
		(FRENCH)		
310 (4)	VQT8652	OPERATING INSTRUCTION	1	⚠
		(ITALIAN)		
310 (4)	VQT8653	OPERATING INSTRUCTION	1	⚠
		(CHINESE)		
311 (4)	VPN5395	PAD	1	
312 (4)	VPG0E22	PACKING	1	
313 (4)	VPN5220	CUSHION (L)	1	
314 (4)	VPN5219	CUSHION (R)	1	
		****** JIG& TOOLS******		
	VFK1395	232C(M3) I/F CABLE	1	
	VFK1409	MEASURING BOARD	1	
	VFK1410	EVR CONNECTION BOARD	1	
	VFK1317	FLAT CABLE 30P	2	
	VFK1281	MECHANISM PLATE	1	
	VFK1278	POST ADJUSTMENT DRIVER	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
	VFK1279	CAP. TILT ADJ. PLATE	1	
	VFK1276	LOADING GEAR DRIVER	1	
	VFK1426	6% SENSOR DV CASSETTE	1	
	VFK1447Y	Y(50) DV CASSETTE	1	
	VFK1447C	C(40) DV CASSETTE	1	
	VFM3110EDS	PAL-DV REFERENCE CASSETTE	1	
	VFK1507P	ANALOG Y/C CONNECTION	1	
		C.B.A.		
	VFK1509	FLAT CABLE 36P	2	
	VFK1508	FLAT CABLE 32P	1	
	VFK1174	FLAT CABLE 30P	1	
	VFK1284	FLAT CABLE 24P	1	
	VFK1292	FLAT CABLE 9P	1	
	VFK1282	FLAT CABLE 22P	1	
	VFK1446	FLAT CABLE 32P	1	
	VFK1445	FLAT CABLE 26P	1	
	VFK1527	FLAT CABLE 3P	1	
	VFK1529	FLAT CABLE 2P	1	
	VFK1530	FLAT CABLE 30P	1	

12.2. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE : Components identified with the mark /!\ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified.
All resistors are in OHMS , K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf) . P=uuuF.
4. The P.C.Board units marked width"▮"show below the main assembled parts.
5. The marking(RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
■	VEP06D55A	MAIN C.B.A.	1	(RTL)
				THE FOLLOWING C.B.A.S
				ARE INCLUDED IN
				MAIN C.B.A.
				VEP01868A
				VEP03F40A
				VEP03F41A
■	VEP01868A	SUB POWER C.B.A.	1	(RTL)
				INCLUDED IN MAIN C.B.A.
				(VEP06D55A).
■	VEP03F40A	INPUT/OUTPUT C.B.A.	1	(RTL)
				INCLUDED IN MAIN C.B.A.
				(VEP06D55A).
■	VEP03F41A	ANALOG C.B.A.	1	(RTL)
				INCLUDED IN MAIN C.B.A.

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
				(VEP06D55A).
■	VEP03F39A	DIGITAL C.B.A.	1	(RTL)
■	VEP07A04A	DV JACK C.B.A.	1	(RTL)
■	VEP07A24A	TIMER C.B.A.	1	(RTL)
■	VEP000D6A	SWITCH C.B.A.	1	(RTL)
■	VEP000D5B	MOTOR C.B.A.	1	(RTL)
■	VEP05352A	HEAD AMP C.B.A.	1	(RTL)
■	VES0914	MECH. FLEX. U.	1	
■	VEP06D55A	MAIN C.B.A.		(RTL)
B7901	CR2354-1GUF	LITHIUM BATTERY	1	
C1001	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C1002-04	VCEA1CCS470	E.CAPACITOR 16V 47U	3	
C1005	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1006	VCEA0JCS101	E.CAPACITOR 6.3V 100U	1	
C1007	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1008	VCEA0JCS101	E.CAPACITOR 6.3V 100U	1	
C1009	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1010	VCEA1ACS470	E.CAPACITOR 10V 47U	1	
C1011	VCEA0JCS101	E.CAPACITOR 6.3V 100U	1	
C1012	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1013	VCEA0JCS101	E.CAPACITOR 6.3V 100U	1	
C1014	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1015	VCEA1ACS470	E.CAPACITOR 10V 47U	1	
C1016	VCEA0JCS101	E.CAPACITOR 6.3V 100U	1	
C1019	VCEA0JCS101	E.CAPACITOR 6.3V 100U	1	
C1020	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1021	VCEA0JCS101	E.CAPACITOR 6.3V 100U	1	
C1022	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1023	VCEA1ACS220	E.CAPACITOR 10V 22U	1	
C1024	VCEA0JCS101	E.CAPACITOR 6.3V 100U	1	
C1025	VCEA1ACS220	E.CAPACITOR 10V 22U	1	
C1026	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
C1027	VCEA0JCS101	E.CAPACITOR 6.3V 100U	1	
C1028	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1029	VCEA1ACS470	E.CAPACITOR 10V 47U	1	
C1030	VCEA0JCS101	E.CAPACITOR 6.3V 100U	1	
C1031,32	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C1033	VCEA0JCS101	E.CAPACITOR 6.3V 100U	1	
C1034	VCEA1ACS220	E.CAPACITOR 10V 22U	1	
C1035	VCEA0JCS101	E.CAPACITOR 6.3V 100U	1	
C1036	VCEA1ACS220	E.CAPACITOR 10V 22U	1	
C1037	VCEA0JCS101	E.CAPACITOR 6.3V 100U	1	
C1114	VCEA1VJC470	E.CAPACITOR 35V 47U	1	
C1120	ECQU2A823MVA	P.CAPACITOR 250V 0.082U	1	⚠
C1122,23	ECKMNA101MBV	CERAMIC CAPACITOR	2	⚠
C1124	ECKMNA102MEV	CERAMIC CAPACITOR	1	⚠
C1140	ECEC2GG680	E.CAPACITOR 400V 68U	1	
C1151	ECKD2H103PU	C.CAPACITOR 500V 0.01U	1	
C1152	ECCZ3A101KGE	C.CAPACITOR 1KV 100P	1	
C1180	VCEA0JJC331	E.CAPACITOR 6.3V 330U	1	
C1181	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1182	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C1201	ECQB1H822JF	P.CAPACITOR 50V 8200P	1	
C1202	ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C1230	VCEA1HJH101	E.CAPACITOR 50V 100U	1	
C1231	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1240	VCEA1AJH182	E.CAPACITOR 10V 1800U	1	
C1241	VCEA1AJH122	E.CAPACITOR 10V 1200U	1	
C1242	ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1250,51	VCEA1EJH821	E.CAPACITOR 25V 820U	2	
C1252	ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1260	VCEA1AJH182	E.CAPACITOR 10V 1800U	1	
C1261	VCEA1AJH122	E.CAPACITOR 10V 1200U	1	
C1262	ECKD2H221KB	C.CAPACITOR 500V 220P	1	
C1270	VCEA1HJH101	E.CAPACITOR 50V 100U	1	
C1271	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1272	ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1280	VCEA1AJH471	E.CAPACITOR 10V 470U	1	
C1281,82	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C1283	ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1290	ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C3601	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3602	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3603	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3604,05	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C3606	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C3607	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3608	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3609	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3611	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3612,13	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C3614	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3615	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3616	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3617	ECEA1CKA100	E.CAPACITOR 16V 10U	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
C3618	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3619	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3620,21	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C3622	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3623	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3624	ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C3625	ECEA0JKS220	E.CAPACITOR 6.3V 22U	1	
C3626	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3627	ECEA0JKS101	E.CAPACITOR 6.3V 100U	1	
C3628	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A063
C3629	ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C3630	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3631	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3632	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3633	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3634	ECEA0JKS101	E.CAPACITOR 6.3V 100U	1	
C3635	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C3636	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3637	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3638	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3639	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3640,41	ECUM1H360JCV	C.CAPACITOR CH 50V 36P	2	
C3642	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3643	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3644	ECEA0JKS101	E.CAPACITOR 6.3V 100U	1	
C3645	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C3646	ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C3647	ECEA1HKS3R3	E.CAPACITOR 50V 3.3U	1	
C3648	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C3649	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	1	
C3650	ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C3651	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3652	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3653	ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C3654	ECQP1392JZ	P.CAPACITOR 100V 3900P	1	
C3655	ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C3656	ECEA0JKS331	E.CAPACITOR 6.3V 330U	1	
C3657	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3658	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C3659	ECUM1A684KBN	C.CAPACITOR CH 10V 0.68U	1	
C3660	ECEA1AKS221	E.CAPACITOR 10V 220U	1	
C3661	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3662	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3663	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3664	ECEA0JKS331	E.CAPACITOR 6.3V 330U	1	
C3665	ECEA0JKS101	E.CAPACITOR 6.3V 100U	1	
C3666	ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C3667	ECEA1AKS221	E.CAPACITOR 10V 220U	1	
C3668	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C3669	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3670	ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C3671	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C3672	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3673	ECUM1C334ZFN	C.CAPACITOR CH 16V 0.33U	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
C3674	ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C3675	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C3676,77	ECEA0JKS331	E.CAPACITOR 6.3V 330U	2	
C3678	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3679	ECEA1CKS470	E.CAPACITOR 16V 47U	1	
C3680	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3681,82	ECEA0JKS331	E.CAPACITOR 6.3V 330U	2	
C3683	ECEA0JKS220	E.CAPACITOR 6.3V 22U	1	
C3684	ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C3685	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C3686	ECUX1H391JCV	C.CAPACITOR CH 50V 390P	1	
C3687	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3688	ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C3689	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C3690	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3691	ECEA1HKS4R7	E.CAPACITOR 50V 4.7U	1	
C3692	ECEA1HKS2R2	E.CAPACITOR 50V 2.2U	1	
C3693	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3694	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3695-98	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	4	
C3901	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3902	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A063
C3903	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3904	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A063
C3905	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3906	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3907	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3908,09	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C4001	ECA1CM101	E.CAPACITOR 16V 100U	1	
C4002	ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4003,04	VCEA1CAW220	E.CAPACITOR 16V 22U	2	F2A1C220A009
C4005	ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4006	ECA1CM102	E.CAPACITOR 16V 1000U	1	
C4007	VCEA1CAW220	E.CAPACITOR 16V 22U	1	F2A1C220A009
C4008	ECA1CM101	E.CAPACITOR 16V 100U	1	
C4009	ECA1CM102	E.CAPACITOR 16V 1000U	1	
C4010	ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4011-14	VCEA1CAW100	E.CAPACITOR 16V 10U	4	
C4015	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C4302	VCEA1AAW101	E.CAPACITOR 10V 100U	1	
C4303	ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4304	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4305	VCEA0JAW221	E.CAPACITOR 6.3V 220U	1	
C4306	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4307	VCEA0JAW221	E.CAPACITOR 6.3V 220U	1	
C4308	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4309	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4310,11	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C4312	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4313	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4314	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4315	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4316	VCEA1CAW100	E.CAPACITOR 16V 10U	1	
C4317	ECEA1CKA100	E.CAPACITOR 16V 10U	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
C4318	ECUM1C683KBV	C.CAPACITOR CH 16V 0.068U	1	
C4319	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4320	VCEA0JAW470	E.CAPACITOR 6.3V 47U	1	
C4321	ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4322	ECUM1C683KBV	C.CAPACITOR CH 16V 0.068U	1	
C4323	VCEA1CAW100	E.CAPACITOR 16V 10U	1	
C4324	ECUM1C683KBV	C.CAPACITOR CH 16V 0.068U	1	
C4325,26	VCEA1HAW2R2	E.CAPACITOR 50V 2.2U	2	F2A1H2R2A009
C4327	VCEA0JAW470	E.CAPACITOR 6.3V 47U	1	
C4329,30	VCEA1HAW2R2	E.CAPACITOR 50V 2.2U	2	F2A1H2R2A009
C4331	ECUM1C683KBV	C.CAPACITOR CH 16V 0.068U	1	
C4332,33	VCEA1CAW100	E.CAPACITOR 16V 10U	2	
C4334	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4335,36	VCEA1HAW2R2	E.CAPACITOR 50V 2.2U	2	F2A1H2R2A009
C4337	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4339	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4340,41	VCEA1HAW2R2	E.CAPACITOR 50V 2.2U	2	F2A1H2R2A009
C4342-44	VCEA1CAW100	E.CAPACITOR 16V 10U	3	
C4345,46	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C4348	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4349	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4350	VCEA1CAW100	E.CAPACITOR 16V 10U	1	
C4351	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4352	ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C4353	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4354	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C4355-64	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	10	
C4365,66	ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C4367,68	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C4371	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4372	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4373,74	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	2	
C4378-81	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	4	
C4384,85	ECUM1C393KBV	C.CAPACITOR CH 16V 0.039U	2	
C4701	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C4702	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C4703	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C4704	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4705	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C4706	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4707	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4901-04	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	4	
C4905	ECEA1AKA470	E.CAPACITOR 10V 47U	1	
C4906	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4907-14	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	8	
C4951,52	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	2	
C4953	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4954	ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C4955-57	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	3	
C7601	ECEA1AKA470	E.CAPACITOR 10V 47U	1	
C7901	ECEA0JKA331	E.CAPACITOR 6.3V 330U	1	
C7902	ECEA1AM101	E.CAPACITOR 10V 100U	1	
C30001,02	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C30003	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
C30004	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C30005	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C30006	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C30007	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C30008	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	EEVHB0J101P
C30009	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C30010-13	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	4	
C30014	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C30015	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C30016	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C30017	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C30018	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C30019	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C30020	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C30021	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C30022	EEVHB0J220	E.CAPACITOR 6.3V 22U	1	EEVHB0J220R
C30023	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C30024,25	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	2	
C30026,27	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	2	
C30028	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C30029	EEVHB0J220	E.CAPACITOR 6.3V 22U	1	EEVHB0J220R
C30030	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C30031	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C30032	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C30033	EEVHP1HR47	E.CAPACITOR 50V 0.47U	1	
C30034	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C30035	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C30036,37	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C30038	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C30039	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C30040	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C30041	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C30043	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C30044	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C30045	ECUX1H080CCV	C.CAPACITOR CH 50V 8P	1	
C30046	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C30056	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C30057	EEVHB0J220	E.CAPACITOR 6.3V 22U	1	EEVHB0J220R
C30058	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C30059	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C30060	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C30061	EEVHB1H1R0	E.CAPACITOR 50V 1U	1	EEVHB1H1R0R
C30062	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C30063	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C30064	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C30067	ECUX1H080CCV	C.CAPACITOR CH 50V 8P	1	
C30068	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	1	
C30069	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C30070	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	1	
C30071	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C30072	ECUX1H080CCV	C.CAPACITOR CH 50V 8P	1	
C30073	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C30076-85	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	10	
C30086	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
C30087	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C30088	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C30089	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C30090	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C30091	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C30092,93	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C30094	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C30095	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	EEVHB0J101P
C30096	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C30097	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	EEVHB0J101P
C30098	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C30099-01	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	3	
C30106,07	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	F1J1C105A063
D1001-04	11ES1	DIODE	4	
D1005	MA165VT	DIODE	1	
D1006	MA4056N-L	DIODE	1	MAZ4056NLF
D1007	MA165VT	DIODE	1	
D1008	RB441P	DIODE	1	
D1009	AK04	DIODE	1	
D1010	11ES1	DIODE	1	
D1011	MA165VT	DIODE	1	
D1012	MA4051N-M	DIODE	1	
D1013	MA165VT	DIODE	1	
D1014,15	MA720	DIODE	2	
D1016	MA4051N-L	DIODE	1	
D1017	MA165VT	DIODE	1	
D1140	S1WBA80-4062	BRIDGE DIODE	1	B0EBKT000002
D1150	AP01C	DIODE	1	
D1180	MA4220N-H	DIODE	1	
D1181	MA700	DIODE	1	
D1182	MA7300B	DIODE	1	
D1183	MA165VT	DIODE	1	
D1200	ERA22-06	DIODE	1	
D1240	31DQ10-FC9	DIODE	1	B0JAQL000005
D1241	RL2ZP	DIODE	1	
D1251	RL2ZP	DIODE	1	
D1260	31DQ10-FC9	DIODE	1	B0JAQL000005
D1270	ERA22-04	DIODE	1	
D1280	11EQS09	DIODE	1	
D1290	ERA22-04	DIODE	1	
D3601	MA165VT	DIODE	1	
D3602	RB441P	DIODE	1	
D3604	MA29W-A	DIODE	1	
D3901-04	MA165VT	DIODE	4	
D4001,02	MA165VT	DIODE	2	
D4003	MA4075N-M	DIODE	1	
D4004	MA165VT	DIODE	1	
D4005	MA152K	DIODE	1	
D4302	MA153	DIODE	1	
D4701	MA720	DIODE	1	
D4702	MA151WK	DIODE	1	
D4951	MA728	DIODE	1	
D6201	RB441P	DIODE	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
D7601,02	11ES1	DIODE	2	
D7901	MA165VT	DIODE	1	
D7902-04	RB441P	DIODE	3	
D30001	MA8027H	DIODE	1	
D30002	MA142K	DIODE	1	
D30003	HVU17TRF	DIODE	1	B0CCAB000006
F1101	XBA2C16TB0	FUSE	1	⚠
FP3401	VJS3452A036	CONNECTOR (FEMALE) 36P	1	
FP3402	VJS3452A032	CONNECTOR (FEMALE) 32P	1	
FP6201	VJS3452A036	CONNECTOR (FEMALE) 36P	1	
IC1001	PQ20VB2E	IC	1	C0DAEKH00001
IC1002-04	TL431CLP	IC	3	
IC1005	RN5RG22AA	IC	1	
IC1006	TL431CLP	IC	1	
IC1150	STRM6559LF	IC	1	
IC1200	TL431CLP	IC	1	
IC1501	NJM2904M	IC	1	
IC3601	CD4053BCSJX	IC	1	C0JBAR000265
IC3602	AN3916	IC	1	AN3916-LF
IC3603	CD4053BCSJX	IC	1	C0JBAR000265
IC3604	NJM2904M	IC	1	
IC3605	C0JBAR000285	IC	1	
IC3606	MB90089WVASF	IC	1	C0ZBZ0000281
IC3607	CD4053BCSJX	IC	1	C0JBAR000265
IC3608	MM1108XFFE	IC	1	C1AB00000955
IC3609	TC7SH04FU	IC	1	
IC3610	AN3581S	IC	1	
IC3611	AN3296S	IC	1	
IC3612	C0JBAR000285	IC	1	
IC3613	MM1093PFB	IC	1	C1AB00000606
IC3901,02	CD4053BCSJX	IC	2	C0JBAR000265
IC3903	C0JBAR000283	IC	1	
IC4301	NJM79L05A	IC	1	
IC4302	NJM4558M	IC	1	
IC4303	UPC78L05J	IC	1	
IC4304,05	NJM4558M	IC	2	
IC4306	M62409FP	IC	1	
IC4308	M62409FP	IC	1	
IC4309	C0JBAR000285	IC	1	
IC4310-12	NJM4558M	IC	3	
IC4313,14	C0JBAR000285	IC	2	
IC4315	NJM4558M	IC	1	
IC4316	UPC1093J	IC	1	
IC4701	D78011FGCVBB	IC	1	C2BAED000007
IC4702	PST591D	IC	1	C0EAH0000076
IC4901	UPD4721GS	IC	1	
IC30001	CD4053BCSJX	IC	1	C0JBAR000265
IC30002	TC9090AFELP	IC	1	C1AB00000656
IC30003	NJM2903M	IC	1	
IC30004	TCHC4538AF	IC	1	
IC30006	TC90A11F	IC	1	C1AB00000944

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
IC30007	PST9142NR	IC	1	C0EBH0000095
IC30008	MSM518221A25	IC	1	C3ZBJ0000006
IP1001-04	UNH000300A	IC PROTECTOR	4	⚠
IP1005	UNH001200A	IC PROTECTOR	1	⚠
IP1008	UNH000300A	IC PROTECTOR	1	⚠
IP1009	UNH001200A	IC PROTECTOR	1	⚠
IP1010	UNH000300A	IC PROTECTOR	1	⚠
IP1011	UNH001200A	IC PROTECTOR	1	⚠
IP1012	UNH000300A	IC PROTECTOR	1	⚠
IP1280	VSF0015A10	FUSE	1	⚠
IP4001	UNH001200A	IC PROTECTOR	1	⚠
JK3901,02	VJS1470	CONNECTOR (FEMALE) 21P	2	K1FB121A0002
JK4951	VJJ0627	JACK (4-PIN)	1	K2HC104B0013
JK7601	VJJ0666	DV JACK	1	K2HZ104B0006
K3601,02	ERDS2T0	C.RESISTOR 1/4W 0	2	
L1001	VLQ0599J680	COIL 68UH	1	
L1121	ELF18D222F	LINE FILTER	1	⚠
L1230	ELESE101KA	COIL 100UH	1	
L1240	VLQ0655K220	COIL 22UH	1	
L1250	VLQ0655K220	COIL 22UH	1	
L1260	VLQ0655K220	COIL 22UH	1	
L1270	ELESE101KA	COIL 100UH	1	
L3601-06	VLQ0599J330	COIL 33UH	6	
L3607	VLQ0599J680	COIL 68UH	1	
L3608	ELESE220GA	INDUCTOR 22UH	1	
L3609	VLQ0599J330	COIL 33UH	1	
L3610	VLQ0599J680	COIL 68UH	1	
L3611-13	VLQ0599J330	COIL 33UH	3	
L3614	VLQ0398	COIL	1	J0E4434A0010
L3615	VLQ0599J330	COIL 33UH	1	
L3616	ELESE220JA	INDUCTOR 22UH	1	
L3901,02	VLQ0599J680	COIL 68UH	2	
L4001	VLQ0599J101	COIL 100UH	1	
L4701,02	VLQ0599J100	COIL 10UH	2	
L4951	VLQ0599J100	COIL 10UH	1	
L30001	VLQ0319K330	COIL 39UH	1	G1C330KA0002
L30002	VLQ0163J680	COIL 68UH	1	
L30003	VLQ0163J180	COIL 18UH	1	G1C180J00001
L30004	VLQ0163J330	COIL 33UH	1	G1C330J00004
L30005	VLQ0163J390	COIL 39UH	1	
L30006-08	VLQ0319K330	COIL 39UH	3	G1C330KA0002
L30009	VLQ0163J5R6	COIL 5.6UH	1	
L30010-14	VLQ0163J330	COIL 33UH	5	G1C330J00004
L30015	VLQ0163J100	COIL 10UH	1	
L30016,17	VLQ0319K330	COIL 39UH	2	G1C330KA0002
L30018	VLQ0163J270	COIL 27UH	1	
L30020	VLQ0163J270	COIL 27UH	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
L30021,22	VLQ0163J470	COIL 47UH	2	
LB1120,21	VLP0196	CHIP INDUCTOR	2	
LB1124	VLP0196	CHIP INDUCTOR	1	
LB1150	VLP0196	CHIP INDUCTOR	1	
LB4901-08	VLP0335	COIL	8	J0JBC0000013
LB4951	VLP0145	COIL	1	
LB30001-03	VLP0321A300	CHIP INDUCTOR	3	
LB30004-06	VLP0323A601	CHIP INDUCTOR	3	
LB30007,08	VLP0321A300	CHIP INDUCTOR	2	
P1001	VJP1230T	CONNECTOR (MALE) 3P	1	K1KA03A00017
P1101	VJS3166	AC INLET	1	⚠
P7601,02	VJP3318A006	CONNECTOR (MALE) 6P	2	K1KA06A00224
P7901	VJS3537A032G	CONNECTOR (FEMALE) 32P	1	K1MN32A00011
P7902	VJS3537A026G	CONNECTOR (FEMALE) 26P	1	K1MN26A00033
PP1101	VJP3042A017W	CONNECTOR (MALE) 17P	1	
PP3401,02	VJP3042G020W	CONNECTOR (MAIL) 20P	2	K1KA20A00203
PP3403	VJP3042A005W	CONNECTOR (MALE) 5P	1	
PP3501	VJP3042A015W	CONNECTOR (MALE) 15P	1	
PP3502	VJP3042A016W	CONNECTOR (MALE) 16P	1	
PS1101	VJS3042B017W	CONNECTOR (FEMALE) 17P	1	
PS3901,02	VJS3042B020W	CONNECTOR (FEMALE) 20P	2	
PS3903	VJS3042B005W	CONNECTOR (FEMALE) 5P	1	
PS30001	VJS3042B015W	CONNECTOR (FEMALE) 15P	1	
PS30002	VJS3042F016W	CONNECTOR (FEMALE) 16P	1	K1KB16B00023
Q1001,02	2SD1996	TRANSISTOR	2	
Q1003	2SD1996-R	TRANSISTOR	1	
Q1004,05	2SD1996	TRANSISTOR	2	
Q1007,08	2SD1996	TRANSISTOR	2	
Q1009	2SB956	TRANSISTOR	1	
Q1010,11	2SD601A-R	TRANSISTOR	2	
Q1012	2SB956	TRANSISTOR	1	
Q1013	2SD602A-R	TRANSISTOR	1	
Q1014-16	2SD1996	TRANSISTOR	3	
Q1200	PC123ZY2	PHOTO COUPLER	1	⚠ B3PBA0000078
Q1501	VEY0084	TRANSISTOR	1	
Q3601-07	2SD1819	TRANSISTOR	7	2SD18190W
Q3608,09	2SB1218	TRANSISTOR	2	
Q3610	2SC3930	CHIP TRANSISTOR	1	
Q3611	2SB1218	TRANSISTOR	1	
Q3612,13	2SD1819	TRANSISTOR	2	2SD18190W
Q3614-17	2SB1218	TRANSISTOR	4	
Q3618	2SD1819	TRANSISTOR	1	2SD18190W
Q3619	2SB1218	TRANSISTOR	1	
Q3620-22	2SD1819	TRANSISTOR	3	2SD18190W
Q3623	2SB1218	TRANSISTOR	1	
Q3624	2SD1819	TRANSISTOR	1	2SD18190W
Q3625-27	2SB1218	TRANSISTOR	3	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
Q3628	2SD1819	TRANSISTOR	1	2SD18190W
Q3901	2SD1328-R	TRANSISTOR	1	
Q3902	2SB1218	TRANSISTOR	1	
Q3903,04	2SD1819	TRANSISTOR	2	2SD18190W
Q3905	2SB1218	TRANSISTOR	1	
Q3907	2SD1819	TRANSISTOR	1	2SD18190W
Q3908	2SD602	TRANSISTOR	1	
Q3909	XN4402	TRANSISTOR	1	
Q4001	2SK170BL	TRANSISTOR	1	
Q4002	2SB1218	TRANSISTOR	1	
Q4003	2SD1992	TRANSISTOR	1	
Q4004	2SD1819	TRANSISTOR	1	2SD18190W
Q4005	2SB1320A	TRANSISTOR	1	
Q4301	2SD1468	TRANSISTOR	1	
Q4305-10	2SD1819	TRANSISTOR	6	2SD18190W
Q4314,15	2SD1819	TRANSISTOR	2	2SD18190W
Q4701,02	2SD1819	TRANSISTOR	2	2SD18190W
Q7601,02	2SD1996	TRANSISTOR	2	
Q30001,02	2SB1218	TRANSISTOR	2	
Q30003,04	2SC3930	CHIP TRANSISTOR	2	
Q30005,06	2SB1218	TRANSISTOR	2	
Q30007,08	2SC3930	CHIP TRANSISTOR	2	
Q30009	2SB1218	TRANSISTOR	1	
Q30010	2SC3930	CHIP TRANSISTOR	1	
Q30011,12	2SB1218	TRANSISTOR	2	
Q30014	2SC3930	CHIP TRANSISTOR	1	
Q30015,16	2SB1218	TRANSISTOR	2	
Q30017	2SD1819	TRANSISTOR	1	2SD18190W
Q30018	2SC3930	CHIP TRANSISTOR	1	
Q30019,20	2SB1218	TRANSISTOR	2	
Q30021	2SD1819	TRANSISTOR	1	2SD18190W
Q30022,23	2SB1218	TRANSISTOR	2	
QR1001	UN5213	TRANSISTOR-RESISTOR	1	
QR1003	UN5111	TRANSISTOR-RESISTOR	1	
QR1004	UN5213	TRANSISTOR-RESISTOR	1	
QR1005	UN5113	TRANSISTOR-RESISTOR	1	
QR1006,07	UN5213	TRANSISTOR-RESISTOR	2	
QR3601	UN5111	TRANSISTOR-RESISTOR	1	
QR3602	UN5213	TRANSISTOR-RESISTOR	1	
QR3603,04	UN521L	TRANSISTOR-RESISTOR	2	UNR521L
QR3605	UN5212	TRANSISTOR-RESISTOR	1	
QR3606	UN5213	TRANSISTOR-RESISTOR	1	
QR3901,02	UN5211	TRANSISTOR-RESISTOR	2	
QR3903	XN1211	TRANSISTOR	1	
QR4001	UN5113	TRANSISTOR-RESISTOR	1	
QR4301	UN5119	TRANSISTOR-RESISTOR	1	UNR511900L
QR4302	UN5212	TRANSISTOR-RESISTOR	1	
QR4303-05	UN5213	TRANSISTOR-RESISTOR	3	
QR4701-03	UN5213	TRANSISTOR-RESISTOR	3	
QR4704	UN5112	TRANSISTOR-RESISTOR	1	
QR4705	UN5211	TRANSISTOR-RESISTOR	1	
QR6202,03	UN5213	TRANSISTOR-RESISTOR	2	
QR6204	UN5211	TRANSISTOR-RESISTOR	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
QR6205	UN5213	TRANSISTOR-RESISTOR	1	
QR6206,07	UN5211	TRANSISTOR-RESISTOR	2	
QR6208	UN5213	TRANSISTOR-RESISTOR	1	
QR6209,10	UN5211	TRANSISTOR-RESISTOR	2	
QR6211	UN5213	TRANSISTOR-RESISTOR	1	
QR6212	UN5211	TRANSISTOR-RESISTOR	1	
QR30001	UN5213	TRANSISTOR-RESISTOR	1	
R1001	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	ERJ3RBD563V
R1002	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R1003,04	ERJ3RBD133	M.RESISTOR CH 1/16W 13K	2	
R1005	ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R1006	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	ERJ3RBD562V
R1007	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R1008	ERJ3RBD512	M.RESISTOR CH 1/16W 5.1K	1	
R1009	ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R1011	ERDS2TJ821	C.RESISTOR 1/4W 820	1	
R1012	ERJ3RBD512	M.RESISTOR CH 1/16W 5.1K	1	
R1013	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	ERJ3RBD561V
R1014	ERJ3RBD512	M.RESISTOR CH 1/16W 5.1K	1	
R1015	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R1016	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	ERJ3RBD561V
R1017	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R1018,19	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R1020	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1021,22	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R1023,24	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R1025,26	ERDS2TJ333	C.RESISTOR 1/4W 33K	2	
R1028	ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1029,30	ERDS2TJ333	C.RESISTOR 1/4W 33K	2	
R1031	ERDS2TJ821	C.RESISTOR 1/4W 820	1	
R1032	ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1033,34	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R1035	ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R1036	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1037	ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R1038	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	ERJ3RBD561V
R1039	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R1040	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R1150	ERX1SJR82	M.RESISTOR 1W 0.82	1	
R1151	ERDS2FJ151	C.RESISTOR 1/4W 150	1	
R1152	ERDS2FJ391	C.RESISTOR 1/4W 390	1	
R1153,54	ERDS2TJ225	C.RESISTOR 1/4W 2.2M	2	
R1155	ERG1SJ223	M.RESISTOR 1W 22K	1	
R1156,57	ERDS2TJ225	C.RESISTOR 1/4W 2.2M	2	
R1158	ERG1SJ223	M.RESISTOR 1W 22K	1	
R1180	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1181	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R1182	ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R1183	ERDS2FJ152	C.RESISTOR 1/4W 1.5K	1	
R1184,85	ERDS2FJ224	C.RESISTOR 1/4W 220K	2	
R1200	ERDS1TJ100	C.RESISTOR 1/2W 10	1	
R1201	ERDS2FJ222	C.RESISTOR 1/4W 2.2K	1	
R1202	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R1203	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R1204	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R1205	ERJ6RBD912	M.RESISTOR CH 1/10W 9.1K	1	
R1206	ERJ6RBD242	M.RESISTOR CH 1/10W 2.4K	1	
R1207	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R1501	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R1502	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1503	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R1504	ERSF30JR90	M.RESISTOR 0.9	1	
R1505	ERJ3GEYG242	M.RESISTOR CH 1/16W 2.4K	1	
R1506	ERJ3GEYG333	M.RESISTOR CH 1/16W 33K	1	
R1507	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3500	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3501	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R3502	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R3503	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R3504	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R3505	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3506	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3507	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3508	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3510	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3512	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3513	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3514	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3515	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3516	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3517	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3518	ERJ3GEYG333	M.RESISTOR CH 1/16W 33K	1	
R3519	ERJ3GEYG223	M.RESISTOR CH 1/16W 22K	1	
R3520	ERJ3GEYG333	M.RESISTOR CH 1/16W 33K	1	
R3521	ERJ3GEYG223	M.RESISTOR CH 1/16W 22K	1	
R3522	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3523	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3524	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3525	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3526	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	ERJ3RBD153V
R3527	ERJ3GEYJ432	M.RESISTOR CH 1/16W 4.3K	1	
R3528	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3529	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3530,31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3532	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3533	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3601	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3602	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3603	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3604	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R3605	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3606	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R3607	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3609	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R3610	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3611	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3612	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R3613	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R3614	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3615	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R3616	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3617	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R3618,19	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3620	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3621	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3622	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3623	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3625	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3626	ERJ3GEYJ132	M.RESISTOR CH 1/16W 1.3K	1	
R3627	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3628	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3629	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3630	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3631	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3632	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3633	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R3634	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3635	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3636	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3637	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3638	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3639	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3640	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R3641	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R3642	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3643	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3644	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3645	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R3646-48	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	3	
R3649	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3650	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3651	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3652	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R3653,54	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R3655,56	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R3657	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3658	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3659	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3660	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3661	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3662	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3663	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3664,65	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	ERJ3RBD682V
R3666	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3667	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3668,69	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3670,71	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R3672,73	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R3674	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R3675	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R3676	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R3677	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3678	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R3679	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3680	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R3681	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3682	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3683	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3684	ERJ3GEYG821	M.RESISTOR CH 1/16W 820	1	
R3685	ERJ3GEYJ824	M.RESISTOR CH 1/16W 820K	1	
R3686	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3687	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3688	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3689	ERJ3GEYG561	M.RESISTOR CH 1/16W 560	1	
R3691	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3692	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R3693,94	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3695	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3697	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3698	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	ERJ3RBD562V
R3699	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3901-09	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	9	
R3910	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3911	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3912	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3913	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R3914	ERJ3GEYJ111	M.RESISTOR CH 1/16W 110	1	
R3915	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3916	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3917	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3918	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3919	ERJ3GEYJ111	M.RESISTOR CH 1/16W 110	1	
R3920	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R3921-23	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	3	
R3924	ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R3925	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3926	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R3927	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3928	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3929	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3930	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3931	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3932	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3933,34	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R3935	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3936	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4001	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4002	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4003	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4004	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4005	ERJ3GEYJ202	M.RESISTOR CH 1/16W 2K	1	
R4006	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4007	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R4008	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4009	ERJ3GEYJ201	M.RESISTOR CH 1/16W 200	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R4010,11	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4301	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	ERJ3RBD103V
R4302	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	ERJ3RBD391V
R4303	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4305	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	ERJ3RBD103V
R4306,07	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	2	
R4308	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4309	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4310	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4311	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4312	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4313	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4314	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4315	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	ERJ3RBD123V
R4316	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	ERJ3RBD103V
R4317	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	ERJ3RBD123V
R4318	ERJ3RED204	M.RESISTOR CH 1/16W 200K	1	
R4319	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R4320	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	ERJ3RBD103V
R4321	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R4322	ERJ3RED204	M.RESISTOR CH 1/16W 200K	1	
R4323,24	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4325	ERJ3RED204	M.RESISTOR CH 1/16W 200K	1	
R4328	ERJ3RED204	M.RESISTOR CH 1/16W 200K	1	
R4332	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	ERJ3RBD223V
R4335	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	ERJ3RBD223V
R4336	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4343	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	ERJ3RBD223V
R4345	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	ERJ3RBD223V
R4347	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4348,49	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R4350	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R4351	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R4352	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	ERJ3RBD103V
R4353	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R4354,55	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	ERJ3RBD223V
R4356	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	ERJ3RBD103V
R4357	ERJ3RBD363	M.RESISTOR CH 1/16W 36K	1	
R4359	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	ERJ3RBD103V
R4360	ERJ3RBD363	M.RESISTOR CH 1/16W 36K	1	
R4363,64	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	ERJ3RBD103V
R4366,67	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	ERJ3RBD103V
R4368	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4369	ERJ3RBD513	M.RESISTOR CH 1/16W 51K	1	
R4370	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4371	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4372	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4373	ERJ3RBD513	M.RESISTOR CH 1/16W 51K	1	
R4374	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4375	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4376	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4377	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	ERJ3RBD103V
R4379	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4380	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R4381	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4382	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4384	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4385	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4386	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4387	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4388	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4389	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4390	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	ERJ3RBD103V
R4396	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4397	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4398	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4401-03	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	3	
R4405-07	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	3	
R4701,02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4703	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R4704-06	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4713	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4714	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4715	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4716-19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4720	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4722	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4723	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4724	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R4725	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R4726	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4728	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4730	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4731	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4732,33	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4903,04	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R4907,08	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R4911,12	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R4951	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4952	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4954	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4955-57	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4958	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6201,02	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R6204-06	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	3	
R7601-04	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R7901	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30001	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R30002,03	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R30004	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R30005	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R30006	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R30007	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R30008	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R30009	ERJ3GEYJ112	M.RESISTOR CH 1/16W 1.1K	1	
R30010	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30011	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R30012	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R30013	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R30014,15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R30016	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R30017	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R30018	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R30019	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30020	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R30021	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R30022	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R30023	ERJ3GEYJ241	M.RESISTOR CH 1/16W 240	1	
R30024	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R30025	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R30026	ERJ3GEYJ112	M.RESISTOR CH 1/16W 1.1K	1	
R30027	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30028	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R30029-31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R30032	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R30033	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R30034,35	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R30036	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R30037	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R30038	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30039	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R30040	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R30041	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R30042	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R30043	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R30044	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R30045	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R30046	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R30047	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R30048	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R30050	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R30051	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R30054,55	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R30063	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R30064	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R30065	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R30066	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R30067,68	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R30069	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30070	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R30071	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30072	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R30073	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30074	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R30075	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R30076	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R30077,78	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R30079,80	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R30081,82	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R30083	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R30084	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R30085	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R30086	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30087,88	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R30089	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R30090	ERJ3GEYJ432	M.RESISTOR CH 1/16W 4.3K	1	
R30091	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30093,94	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	2	ERJ3RBD332V
R30095	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R30096	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R30097	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R30098	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R30099	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30100	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R30101	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R30102,03	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R30104	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R30105-08	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R30109-11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
RY7601,02	VSY2179	RELAY	2	K6B9DDB00002
S3901	VSS0513	SLIDE SWITCH	1	K0D142A00023
T1150	ETE28K128AZ	SWITCHING TRANSFORMER	1	⚠
VR30003	EVM7JGA00B54	V.RESISTOR 50K	1	
X3601	VSX1009	CRYSTAL OSCILLATOR	1	
X3602	VEY0072	CRYSTAL OSCILLATOR	1	
X4701	VSX0934	CERAMIC OSCILLATOR	1	
X30002	VEY0085	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	EYF52BC	FUSE HOLDER	2	
	VSC4931	OSD SHIELD CASE	1	
	VEJ1932	JACK BOARD	1	K4ZZ18000018
	XTV3+8GFZ	SCREW	4	
	VKC0295	SPACER	3	
	VMP4985	CARD CORNER HOLDER	1	
	VJF1400	JACK HOLDER	1	
	VMP4985	CARD CORNER HOLDER	2	
	VSC4875	SHIELD CASE (UPPER)	1	FOR ANALOG C.B.A.
	VSC4876	SHIELD CASE (LOWER)	1	FOR ANALOG C.B.A.
	VMZ2950	INSULATION SHEET	2	FOR ANALOG C.B.A.
■	VEP03F39A	DIGITAL C.B.A.		(RTL)
C2001	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	1	F3F0J226A007
C2002-04	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	3	
C2005,06	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	2	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
C2007-09	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	3	
C2010	ECST0JX107ZR	T.CAPACITOR CH 6.3V 100U	1	F3H0J1070005
C2011-13	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	3	
C2014,15	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C2016	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A063
C2018	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A063
C2019	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C2020	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A063
C2021	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C2022	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C2023	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C2024	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C2025	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C2026	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C2027-30	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	4	
C2037	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C2042-45	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	4	
C2501-04	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	4	
C2505	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A063
C2506	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C2507	ECUM1A335KBM	C.CAPACITOR CH 10V 3.3U	1	
C2509	ECUM1A564KBN	C.CAPACITOR CH 10V 0.56U	1	
C2510	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C2511,12	ECUM1A335KBM	C.CAPACITOR CH 10V 3.3U	2	
C2513	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C2514	ECUM1A564KBN	C.CAPACITOR CH 10V 0.56U	1	
C2515	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C2516	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	F1J1A1050002
C2517	ECUM1E273KBV	C.CAPACITOR CH 25V 0.027U	1	
C2519	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	F1H1E223A024
C2520	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C2521	ECST0JY475	T.CAPACITOR CH 6.3V 4.7U	1	
C2522-30	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	9	
C2531	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2532	ECUM1A335KBM	C.CAPACITOR CH 10V 3.3U	1	
C2533,34	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2535	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	F1J1A1050002
C2536	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C2537,38	ECUM1A335KBM	C.CAPACITOR CH 10V 3.3U	2	
C2539	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C2540-42	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	3	
C2543	ECST0JX476	T.CAPACITOR CH 6.3V 47U	1	
C2545,46	ECST1AC476	T.CAPACITOR CH 10V 47U	2	
C2547	ECST1VD106	T.CAPACITOR CH 35V 10U	1	
C2548	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2549	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C2550	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C2551	ECUM1A335KBM	C.CAPACITOR CH 10V 3.3U	1	
C2555	ECST1VD106	T.CAPACITOR CH 35V 10U	1	
C3001	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	F1J1A1050002
C3002	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3003	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C3004,05	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	F1J1C105A063
C3006	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
C3007	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A063
C3008	ECUM0J225KBN	C.CAPACITOR CH 6.3V 2.2U	1	
C3009-12	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	4	
C3013	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3014	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C3015	ECST1CY335Z	T.CAPACITOR CH 16V 3.3U	1	
C3016	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3017	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C3018	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3019	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C3020	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A063
C3021	ECST1CY335Z	T.CAPACITOR CH 16V 3.3U	1	
C3022	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C3023	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C3024	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C3025	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C3026	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3027	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C3030	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3031	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	F1J1A1050002
C3032	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C3033	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3034	ECUM1E273KBV	C.CAPACITOR CH 25V 0.027U	1	
C3035	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3036	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C3037	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A063
C3038,39	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C3040,41	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	F1J1C105A063
C3042	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3043-54	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	12	
C3055	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3056	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3057	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3059	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3062-65	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	4	
C3066	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3067	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	1	F3F0J226A007
C3068-72	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	5	
C3073-77	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	5	
C3078,79	ECUX1H070CCV	C.CAPACITOR CH 50V 7P	2	
C3080	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3081	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3086,87	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C3090,91	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C3092	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3093-96	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	4	F1J1C105A063
C3097,98	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C3099,00	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C3101,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3103	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3105-07	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	3	
C3109,10	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C3111,12	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C3113-15	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	3	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
C3118,19	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C3151	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	F1J1A1050002
C3154	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	F1J1A1050002
C3155	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C3156	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C3157	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3158	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	F1J1A1050002
C3201,02	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C3203,04	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C3205	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C3206	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3207	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3208	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3209,10	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3211-13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C3214	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3215	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C3216-18	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C3219	ECUM1E273KBV	C.CAPACITOR CH 25V 0.027U	1	
C3220	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3221	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3222	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3223	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	F1J1A1050002
C3224	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C3225,26	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3227	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3228	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3229	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	F1H1H3310005
C3230	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3231	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C3232	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3233	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3234	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3235	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C3236	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3237,38	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3239	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C3240	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3241,42	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C3243	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3244	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3245	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C3246	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3247	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C3248	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3249	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3250	ECUM0J225KBN	C.CAPACITOR CH 6.3V 2.2U	1	
C3251-53	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C3254	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3255,56	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3257	ECST0JX476	T.CAPACITOR CH 6.3V 47U	1	
C3258	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3259	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3260	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
C3261	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3262	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C3264	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3265	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3267	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C3270	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3279	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3280	ECST0JX107ZR	T.CAPACITOR CH 6.3V 100U	1	F3H0J1070005
C3281,82	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C3283-85	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	3	
C3287	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3288-97	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	10	
C3298,99	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C3701,02	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C3703	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3704-06	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	3	
C3707	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3708,09	ECUX1H060CCV	C.CAPACITOR CH 50V 6P	2	
C3710-12	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	3	
C3713	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A063
C3714	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C3715-18	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	4	
C3719-21	ECST0JY106	T.CAPACITOR CH 6.3V 10U	3	
C3722-25	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	4	
C3727	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4203	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4206	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4207	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4211	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4212	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C4213	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4214	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4215	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4217	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C4218	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4219	ECST0JY106	T.CAPACITOR CH 6.3V 10U	1	
C4220,21	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C4222,23	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	2	
C4224,25	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	2	
C4501,02	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C4503-05	ECST0JY106	T.CAPACITOR CH 6.3V 10U	3	
C4506	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4515	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C6001,02	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	2	
C6003	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C6004	ECST0JX107ZR	T.CAPACITOR CH 6.3V 100U	1	F3H0J1070005
C6005-07	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	3	
C6009-11	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
C6012,13	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C6014	ECST1VD106	T.CAPACITOR CH 35V 10U	1	
C6018,19	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C6020	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C6021	ECUM1H473ZFV	C.CAPACITOR CH 50V 0.047U	1	
C6022,23	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
C6027,28	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C6029,30	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C6032-34	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	3	
C6036,37	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C6041-46	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	6	
C6047	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C6051,52	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C6053	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6054	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C6055	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C6057-59	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
C6060	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C6061	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6063	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C6064,65	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C6066	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C6067	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C6068	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C6069	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
D2001	MA728	DIODE	1	MA2J728
D2003-05	1SS355	DIODE	3	
D2006-14	MA728	DIODE	9	MA2J728
D2501	MA721	DIODE	1	
D2502	MA736	DIODE	1	
D2503	MA721	DIODE	1	
D2504	MA736	DIODE	1	
D3002	MA728	DIODE	1	MA2J728
D3003	MA151K	DIODE	1	MA3X151K
D3151	MA729	DIODE	1	
D3152	MA728	DIODE	1	MA2J728
D3201	MA142WA	DIODE	1	
D4501	MA721	DIODE	1	
D6001	1SS355	DIODE	1	
D6003-05	MA728	DIODE	3	MA2J728
D6006	1SS355	DIODE	1	
D6007	MA728	DIODE	1	MA2J728
FL3701-04	VLF1466B223	CHIP BEAD	4	
FP3201	VJS3452A036	CONNECTOR (FEMALE) 36P	1	
FP3202	VJS3452A032	CONNECTOR (FEMALE) 32P	1	
FP3203	VJS3452A024	CONNECTOR (FEMALE) 24P	1	
FP6002	VJS3452A036	CONNECTOR (FEMALE) 36P	1	
FP6003	VJS3320B030	CONNECTOR (FEMALE) 30P	1	
IC2001	M31020VLFP	IC	1	C2DAJG000002
IC2002	M62370GP	IC	1	C0FBBD000082
IC2003	PST7029-MT	IC	1	C0EAE0000016
IC2004	S29L331AFS	IC	1	
IC2005	D784037GK508	IC	1	C2CBHF000135
IC2006	MM1320ENRE	IC	1	C0CBABB00030
IC2501	BA6289F	IC	1	
IC2502	TC7S86FU	IC	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
IC2503	TB6519AF	IC	1	C0GBY0000010
IC2504	NJM2903M	IC	1	
IC2505	TC75W54FU	IC	1	
IC2506,07	UN224	TRANSISTOR-RESISTOR	2	
IC2508	AN1555NS	IC	1	
IC3001	T9P90EF	IC	1	C1ZBZ0001439
IC3002	MN47V07AF	IC	1	
IC3003	MN67373	IC	1	
IC3004	M52387FP	IC	1	C1AB00001114
IC3005	BH7086KV	IC	1	C1ZBZ0001649
IC3006	M52684AFP	IC	1	
IC3007	TC7SH00FU	IC	1	
IC3008	T200G52F0001	IC	1	C1ZBZ0001463
IC3009,10	TC7SH08FU	IC	2	
IC3011	C0JBAS000119	IC	1	
IC3012	RN5RZ30BA	IC	1	
IC3153,54	TC7SHU04FU	IC	2	C0JBAB000300
IC3201	M65501FP	IC	1	C1AB00000835
IC3202	MNV4260D	IC	1	
IC3203	AN3741FAP-AV	IC	1	
IC3204	AD9057BRS-60	IC	1	C0FBAD000052
IC3205	TC7SH08FU	IC	1	
IC3701	TSB13LV11PBW	IC	1	C1DB00000454
IC4201	NJM2112V	IC	1	
IC4210	NJM2115V	IC	1	C0ABBB000104
IC4501	AK4520A-VF	IC	1	
IC6001	M31020VLFN	IC	1	C2DAJG000001
IC6002	BA6219BFPY	IC	1	
IC6003	NJM2903M	IC	1	
IC6004	BU4052BCF	IC	1	
IC6005	TA75S393F	IC	1	C0BBAB000005
L2001	VLQ0319K100	COIL 10UH	1	G1C100K00023
L2003	VLQ0319K100	COIL 10UH	1	G1C100K00023
L2501,02	VLQ0894K331	COIL 330UH	2	
L3001-04	VLQ0319K100	COIL 10UH	4	G1C100K00023
L3005	VLQ0426J150	COIL 15UH	1	G1C150J00006
L3006-08	VLQ0319K100	COIL 10UH	3	G1C100K00023
L3009	VLQ0426J120	COIL 12UH	1	G1C120J00005
L3010	VLQ0426J150	COIL 15UH	1	G1C150J00006
L3151,52	VLQ0319K220	COIL 22UH	2	G1C220K00015
L3201-07	VLQ0319K100	COIL 10UH	7	G1C100K00023
L3208	VLQ0319K220	COIL 22UH	1	G1C220K00015
L3209	VLQ0319K100	COIL 10UH	1	G1C100K00023
L4201	VLQ0426J6R8	COIL 6.8UH	1	G1C6R8J00006
L4501,02	VLQ0319K100	COIL 10UH	2	G1C100K00023
LB2001,02	VLP0145	COIL	2	
LB2004-06	VLP0145	COIL	3	
LB2007	VLF1148A241	CHIP BEAD	1	
LB2501,02	VLP0364	CHIP INDUCTOR	2	
LB3001,02	VLP0364	CHIP INDUCTOR	2	
LB3003	VLP0145	COIL	1	
LB3006	VLP0145	COIL	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
LB3011	VLP0145	COIL	1	
LB6001,02	VLP0145	COIL	2	
P2501	VJS3452A009	CONNECTOR (FEMALE) 9P	1	
P2502	VJS3452A022	CONNECTOR (FEMALE) 22P	1	
P3701	VJP3172B006	CONNECTOR (MALE) 6P	1	
P6001	VJP3172B003	CONNECTOR (MALE) 3P	1	
P6002	VJP3172B002	CONNECTOR (MALE) 2P	1	
PS6001	VJP4119C060	CONNECTOR (MALE) 60P	1	K1KB60A00067
Q2501	2SB1462J	TRANSISTOR	1	2SB146200L
Q2502	2SD2216	TRANSISTOR	1	
Q2503,04	2SB1073	TRANSISTOR	2	
Q3001	2SD1819	TRANSISTOR	1	2SD18190W
Q3002	2SB1218	TRANSISTOR	1	
Q3003	2SD1819A	TRANSISTOR	1	2SD1819AW
Q3004,05	2SD1819	TRANSISTOR	2	2SD18190W
Q3006	2SC3930	CHIP TRANSISTOR	1	
Q3007,08	2SD1819	TRANSISTOR	2	2SD18190W
Q3151,52	2SB1218	TRANSISTOR	2	
Q3201	2SB1218A-R	TRANSISTOR	1	
Q3202	2SC3931	CHIP TRANSISTOR	1	
Q3203,04	2SD1819A	TRANSISTOR	2	2SD1819AW
Q6001	2SB1218	TRANSISTOR	1	
Q6002	2SD1820	TRANSISTOR	1	
Q6003	2SB970X	TRANSISTOR	1	
Q6004	2SD601A	TRANSISTOR	1	2SD0601A
QR2003	UN5113	TRANSISTOR-RESISTOR	1	UNR5113
QR2501	UN5211	TRANSISTOR-RESISTOR	1	
QR2502	UN5212	TRANSISTOR-RESISTOR	1	
QR3001	UN5213	TRANSISTOR-RESISTOR	1	UNR5213
QR3151,52	UN5211	TRANSISTOR-RESISTOR	2	
QR6002	UN5115	TRANSISTOR-RESISTOR	1	
QR6003	UN2130X	TRANSISTOR-RESISTOR	1	
QR6004,05	XP4213	TRANSISTOR-RESISTOR	2	
QR6006-09	UN5211	TRANSISTOR-RESISTOR	4	
QR6010	UN5213	TRANSISTOR-RESISTOR	1	UNR5213
QR6011,12	UN5211	TRANSISTOR-RESISTOR	2	
QR6013,14	UN5213	TRANSISTOR-RESISTOR	2	UNR5213
QR6015	UN5212	TRANSISTOR-RESISTOR	1	
QR6016	UN5213	TRANSISTOR-RESISTOR	1	UNR5213
QR6017	UN5211	TRANSISTOR-RESISTOR	1	
QR6019,20	UN5213	TRANSISTOR-RESISTOR	2	UNR5213
QR6021	UN2213	TRANSISTOR-RESISTOR	1	
QR6023	UN5213	TRANSISTOR-RESISTOR	1	UNR5213
QR6024	UN221K	TRANSISTOR-RESISTOR	1	
QR6025	UN5211	TRANSISTOR-RESISTOR	1	
R2001	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2002,03	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R2006-21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	16	
R2028	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R2032	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2034	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R2035	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R2036	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2037	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R2038	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R2039	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2040	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R2042	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2046	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2047	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R2061,62	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R2066,67	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R2074	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R2076	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R2077	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R2079	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2080	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R2081	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R2082	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	ERJ3RBD183V
R2084	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	ERJ3RBD333V
R2085,86	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R2087,88	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R2099-02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R2104,05	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R2111,12	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R2116	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2117	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2501	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R2503	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R2504,05	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R2507	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2508	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R2509	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R2510	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R2511	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R2512	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R2513	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2514,15	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R2516	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R2517	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R2519	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R2520	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R2521	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R2522	ERJ8GEYJR33	M.RESISTOR CH 1/8W 0.33	1	
R2523	ERJ8GEYJR47	M.RESISTOR CH 1/8W 0.47	1	
R2524,25	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R2526	ERJ8GEYJR27	M.RESISTOR CH 1/8W 0.27	1	
R2527	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R2528	ERJ3RBD431	M.RESISTOR CH 1/16W 430	1	
R2529	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R2530	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R2531	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2533	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	ERJ3RBD104V

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R2534,35	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R2536	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R2537	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R2538	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R2539	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R2540	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R2541	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R2542	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R2543-45	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	3	
R2546,47	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R2548	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2549	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2550	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R2551	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2556,57	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R2559	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2560	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R2561	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2563	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3001	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	ERJ3RBD104V
R3002	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3003	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3004	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3005,06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3007	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3008,09	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R3010	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3011	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3012	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R3013	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3017	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3018	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3019	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3020	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R3021	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3022	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R3023	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3024	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3026	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3027	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3028	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R3034	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3035	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3036	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3037	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3039	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3042	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3043	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3044	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3046	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3047	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3048,49	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
R3050,51	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R3052	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R3053	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3054	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3064	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3065	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3067,68	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3069,70	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3072	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3073	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3075	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3079	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3081-83	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R3084	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3085	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3088	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3089,90	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R3092	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3094	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3097	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3098,99	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3102	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3117	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3120-22	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	3	
R3123	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R3124	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3171-73	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	3	
R3176	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3177	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3178	ERJ3RBD301	M.RESISTOR CH 1/16W 300	1	
R3179,80	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3201	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3203	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3204	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3205	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3206,07	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R3208	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3209	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3210	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R3211	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R3212	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3213	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3214	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3217	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3218	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3219	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	ERJ3RBD222V
R3220	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R3221	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3222	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3223	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	ERJ3RBD222V
R3224	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3225	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3226	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R3227	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3228	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3229	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R3230	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3233	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3234	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3235-37	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	3	
R3238	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3239	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3240,41	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R3245	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3248	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3249	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R3250	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3251	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3252	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R3253	ERJ3RBD301	M.RESISTOR CH 1/16W 300	1	
R3254	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	ERJ3RBD391V
R3255	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3257	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R3263	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3701	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3702	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3703	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3708	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3709	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	ERJ3RBD272V
R3710	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	ERJ3RBD332V
R3711	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3715-18	ERJ3RED560	M.RESISTOR CH 1/16W 56	4	
R3719	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3720	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3721-25	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R3728-33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	6	
R3735	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3736	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3737	ERJ3GEYJ270	M.RESISTOR CH 1/16W 27	1	
R3738	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3739,40	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4203,04	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	ERJ3RBD103V
R4205,06	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4207-10	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	ERJ3RBD103V
R4213,14	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	ERJ3RBD103V
R4215,16	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4217,18	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	ERJ3RBD103V
R4219-22	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	4	ERJ3RBD472V
R4223,24	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	ERJ3RBD103V
R4225,26	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4227,28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4229-32	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	4	
R4233	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6001-03	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R6004	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R6005-10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R6011	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R6012,13	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R6014	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R6015	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R6016-21	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R6022,23	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R6024-28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R6030	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R6031	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6032	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R6033	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6034-38	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	5	
R6040	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6048	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6049,50	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R6051,52	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R6053,54	ERJ3GEYG103	M.RESISTOR CH 1/16W 10K	2	
R6055	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6056,57	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R6059-62	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R6063,64	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R6065	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6066	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6067,68	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R6069	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R6070	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6071	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R6072	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6073	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6074	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6075	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6076	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6077,78	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R6079-82	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R6083	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6084	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R6085	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R6086	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6087-89	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R6090	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R6092	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6093	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R6094	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6096,97	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R6098	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6099	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6100-02	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	3	
R6103,04	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R6106	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6108	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6109,10	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R6111-14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R6115-19	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	5	
R6120	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6121,22	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R6123	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6124	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R6125	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R6126	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R6127	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6128	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6129,30	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R6131	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6133	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6135,36	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R6137-39	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R6140,41	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R6142	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R6143	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6144,45	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R6146	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
X2001	VSX1061	CRYSTAL OSCILLATOR	1	H0J270500022
X2002	VSX0990	CERAMIC OSCILLATOR	1	H2D147500002
X3003	VSX0846	CRYSTAL OSCILLATOR	1	H0J245500014
X3004	VSX0932	CERAMIC OSCILLATOR	1	
X3151	VCR0505	CRYSTAL OSCILLATOR	1	H1A2705B0010
X3152	VSX1109	CRYSTAL OSCILLATOR	1	H0J269500004
X3701	VSX0846	CRYSTAL OSCILLATOR	1	H0J245500014
X6001	VSX1061	CRYSTAL OSCILLATOR	1	H0J270500022
		MISCELLANEOUS		
	VSC4877	SHIELD CASE (UPPER)	1	
	VSC4878	SHIELD CASE (LOWER)	1	
	VMX2910	PAD	1	
	VMZ2759	BARRIER	1	
	VWJ1306	FLAT CARD CABLE (36P)	1	
	VWJ1307	FLAT CARD CABLE (32P)	2	
■	VEP07A04A	DV JACK C.B.A.		(RTL)
JK7651	VJJ0666	DV JACK	1	K2HZ104B0006
P7651	VJP3331B006	CONNECTOR (MALE) 6P	1	K1KA06B00120
■	VEP07A24A	TIMER C.B.A.		(RTL)
C4801	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4802	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C4803	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4804	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C4805	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4806,07	ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	2	
C4808	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4809	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C4810-13	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	4	
C4851	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
C4852	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4854	ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7501	VCEA1HCB100	E.CAPACITOR 50V 10U	1	
C7502	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7503	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C7504	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C7507,08	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C7509	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C7510	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	1	
C7511	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C7512-15	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	4	
C7516-18	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	3	
C7520	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C7534	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
D7501	MA4068	DIODE	1	
D7503	MA165VT	DIODE	1	
D7504	ENC221D5ATHB	ZNR	1	D4EA7221A003
D7507	RB441P	DIODE	1	
DP7501	VSL0539	FIP	1	A2BD00000022
IC7501	MN1874823YA	IC	1	
IC7502	RN5VS43AA	IC	1	
IC7503	BA6138	IC	1	C1BA00000060
IC7504	RN5VS23AA	IC	1	
IR4851	RPM6937-V11	IC	1	C9ZA00000073
JK4801	VJJ0169	REMOTE CONTROLLER JACK	1	K2HD103A0003
JK4851	VJJ0639	RCA JACK	1	K2HA303A0005
JK4852,53	VJJ0574	S TERMINAL	2	K1CB104A0009
JK4854	VJJ0639	RCA JACK	1	K2HA303A0005
JK7501	VJJ0597	EDIT 5P	1	K2HZ105A0001
LB4801,02	VLP0335	COIL	2	J0JBC0000013
LB4803-05	VLP0145	COIL	3	
P7501	VJS3537B026G	CONNECTOR (FEMALE) 26P	1	K1MN26B00042
P7502	VJS3537B032G	CONNECTOR (FEMALE) 32P	1	K1MN32B00011
P7503	VJP1242T	CONNECTOR (MALE) 2P	1	K1KA02B00012
Q7501,02	2SD1819A	TRANSISTOR	2	2SD1819AW
QR7501,02	UN5213	TRANSISTOR-RESISTOR	2	UNR5213
R4801	ERJ3RBD162	M.RESISTOR CH 1/16W 1.6K	1	
R4802	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	ERJ3RBD471V
R4803	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4804	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	ERJ3RBD101V
R4805	ERJ3RBD162	M.RESISTOR CH 1/16W 1.6K	1	
R4806	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	ERJ3RBD471V
R4807	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4808	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	ERJ3RBD101V

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R4809-12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4813	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4814	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R4815	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4816,17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4818,19	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4820	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4821,22	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R4824	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4851-53	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	3	
R4856	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R4857	ERDS2TJ330	C.RESISTOR 1/4W 33	1	
R4858,59	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R4860,61	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	2	
R7501	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7502	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R7504,05	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R7506	ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1	
R7507,08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R7509	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R7510	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R7511	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R7512	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R7513	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7514	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7515	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R7516	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R7517	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R7518	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R7519	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R7520	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R7521	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R7522	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R7523,24	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R7525	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R7526	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R7527	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R7528	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7530	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7531,32	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R7533	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R7534	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R7535	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7536	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R7537	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7538	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R7539	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7540	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R7541	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7542	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7543,44	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R7545	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R7546-50	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R7551	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
R7552-55	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R7556	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R7557	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R7558	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7559-61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
S4801-05	EVQ11L07B	SWITCH	5	
S4852	VSS0405	SLIDE SWITCH	1	K0D113A00041
S7501	VSS0404	SLIDE SWITCH	1	K0D112A00088
S7502	VSS0405	SLIDE SWITCH	1	K0D113A00041
S7503-06	EVQ11L07B	SWITCH	4	
S7507	VSP1131	LED SWITCH	1	K0H1BA000331
S7508-14	EVQ11L07B	SWITCH	7	
VR4801,02	EVJ021F1554J	POTENTIOMETER	2	
X7501	VSX0666	CRYSTAL OSCILLATOR	1	
X7502	VSX1053	CRYSTAL OSCILLATOR	1	H0H838400004
		MISCELLANEOUS		
	VGU8212	VR KNOB	2	
	VJF1372	VR HOLDER	1	
	VMD3745	INFRA HOLDER	1	
	VGU8211	SLIDE KNOB (EDIT)	1	
	VJF1366	FIP HOLDER	1	
	VGU8216	SLIDE KNOB (DV)	1	
	VGU8211	SLIDE KNOB (EDIT)	1	
	VWJ1309	FLAT CARD CABLE (26P)	1	
	VWJ1310	FLAT CARD CABLE (32P)	1	
■	VEP000D6A	SWITCH C.B.A.		(RTL)
		MISCELLANEOUS		
	VSP1130	CASSETTE DET. SWITCH	1	K0L1BA000045
	VJP3318A003	CONNECTOR (MALE) 3P	1	K1KA03A00091
■	VEP000D5B	MOTOR C.B.A.		(RTL)
P1501	VJP3331B002	CONNECTOR (MALE) 2P	1	K1KA02B00049
■	VEP05352A	HEAD AMP C.B.A.		(RTL)
C5001,02	ECUM1C103KBQ	C.CAPACITOR CH 16V 0.01U	2	
C5004	ECUM1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C5007	ECUM1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C5010	ECUM1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C5013	ECUX1E152KBQ	C.CAPACITOR CH 25V 1500P	1	

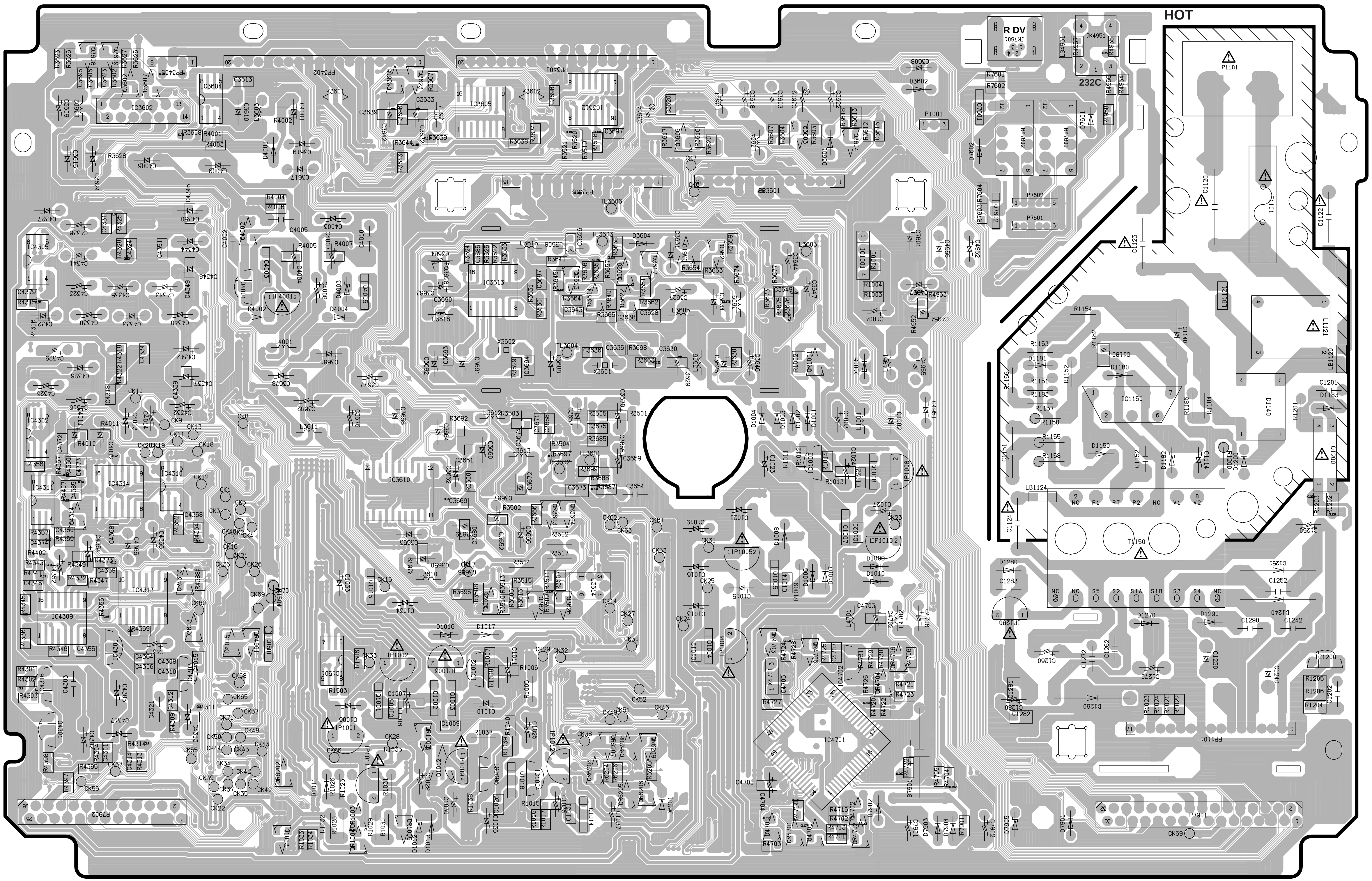
Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
C5014	EEJK0JS106	E.CAPACITOR 6.3V 10U	1	
C5015	ECUM1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C5016	ECUX1H330JCQ	C.CAPACITOR CH 50V 33P	1	
C5017	ECUM1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C5018	ECUX1H220JCQ	C.CAPACITOR CH 50V 22P	1	
C5019	ECUM1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C5020,21	EEJK0JS106	E.CAPACITOR 6.3V 10U	2	
C5023,24	ECUM1C103KBQ	C.CAPACITOR CH 16V 0.01U	2	
C5025	EEJK0JS106	E.CAPACITOR 6.3V 10U	1	
C5026	ECUX1E152KBQ	C.CAPACITOR CH 25V 1500P	1	
C5027	ECUX1H330JCQ	C.CAPACITOR CH 50V 33P	1	
C5028	ECUM1E122KBQ	C.CAPACITOR CH 25V 1200P	1	
C5029	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	F1J1A1050002
C5030	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
C5031	ECUM1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C5032	ECUX1H470JCQ	C.CAPACITOR CH 50V 47P	1	
C5033	ECUX1E681KBQ	C.CAPACITOR CH 25V 680P	1	
C5034	ECUM1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C5035-37	EEJK0JS106	E.CAPACITOR 6.3V 10U	3	
C5038-40	ECUM1C103KBQ	C.CAPACITOR CH 16V 0.01U	3	
FP5001	VJS3320B008	CONNECTOR (FEMALE) 8P	1	K1MN08B00040
IC5001	AN3731FHQ	IC	1	
L5002,03	VLQ0808J220	COIL 22UH	2	G1C220J00006
L5005	VLQ0807M4R7	COIL 4.7UH	1	G1C4R7K00016
L5007	VLQ0807M4R7	COIL 4.7UH	1	G1C4R7K00016
Q5002,03	2SC3937	TRANSISTOR	2	
Q5005,06	2SD1819A	TRANSISTOR	2	2SD1819AW
R5002	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R5003	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R5004	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5005	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R5010	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R5012	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5013	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R5014,15	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	2	
R5016,17	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R5018	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R5019	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R5020	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5021	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5024	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R5025	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R5026	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5028	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R5029	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
		MISCELLANEOUS		
	VSC4639	SHIELD COVER	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
■	VES0914	MECH. FLEX. U.		
		MISCELLANEOUS		
	0N2170-LM	REEL SENSOR (L/R)	2	
	VSP0567	DETECT. SWITCH	1	
	PN166	PHOTO TRANSISTOR (S/T)	2	

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

CAUTION

THE [hatched] MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.



(COMPONENT SIDE)

MAIN C.B.A.(COMPONENT SIDE)

Transistor	
Q1001	B-3
Q1002	B-3
Q1003	B-3
Q1004	B-5
Q1005	B-5
Q1007	B-5
Q1008	C-5
Q1012	A-3
Q1013	A-2
Q1014	A-4
Q1015	B-3
Q1016	A-4
Q1200	C-8
Q1501	B-2
Q3602	D-2
Q3603	D-5
Q3604	D-5
Q3606	D-4
Q3607	D-2
Q3608	E-1
Q3609	E-1
Q3613	D-4
Q3614	C-4
Q3617	D-4
Q3619	D-4
Q3620	D-4
Q3621	D-5
Q3622	C-4
Q3623	D-3
Q3625	B-3
Q3626	B-4
Q3627	B-4
Q3628	D-3
Q4001	D-2
Q4002	D-2
Q4003	D-2
Q4005	D-3
Q4301	B-1
Q4314	B-1
Q4701	A-5
Q4702	A-5
Q7601	D-6
Q7602	D-6

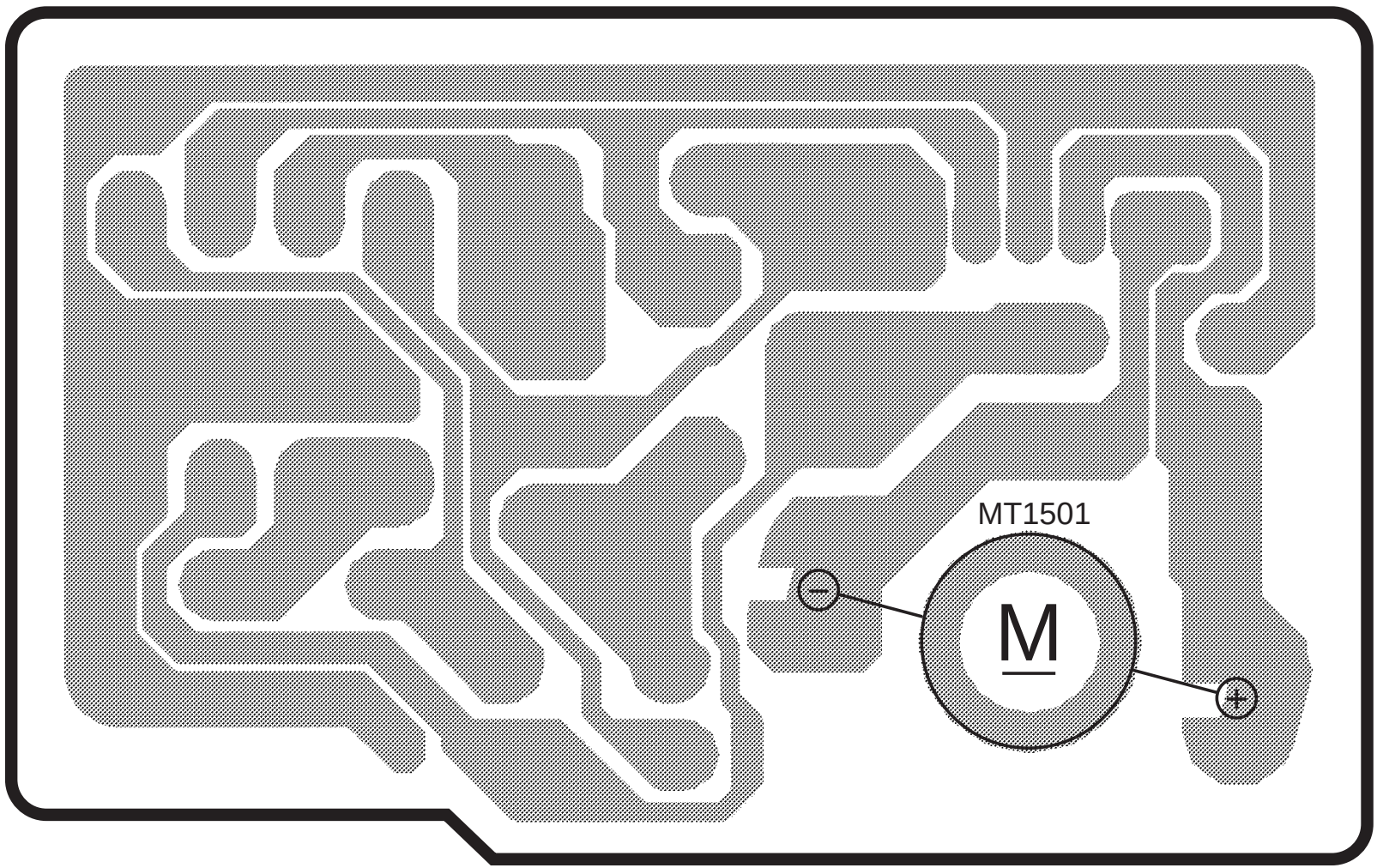
Transistor & Resistor	
QR1001	C-5
QR1003	A-3
QR1004	A-3
QR1005	A-3
QR1006	A-3
QR3603	C-4
QR3604	C-4
QR3605	D-3
QR4001	B-2
QR4303	B-2
QR4701	A-5
QR4702	A-5
QR4703	B-5
QR4704	B-5
QR4705	B-5
QR4706	B-6
QR6202	A-2
QR6204	A-4
QR6205	A-4
QR6206	A-4
QR6207	A-4
QR6208	A-4
QR6209	A-4

Integrated Circuit	
IC1001	D-5
IC1002	B-3
IC1003	C-5
IC1004	A-4
IC1006	A-3
IC1150	C-7
IC1200	B-8
IC1501	B-3
IC3602	D-2
IC3604	D-2
IC3605	D-3
IC3610	C-3
IC3612	D-4
IC3613	D-3
IC4301	B-1
IC4302	C-1
IC4303	B-2
IC4305	D-1
IC4309	B-1
IC4310	C-2
IC4311	C-1
IC4313	B-2
IC4314	C-1
IC4316	B-1
IC4701	A-5
IC4702	B-5

Test Land	
TL3601	C-4
TL3602	C-4
TL3603	D-4
TL3604	C-4
TL3605	D-5
TL3606	D-4

Connector	
P1001	D-6
P1101	E-7
P7601	D-6
P7602	D-6
P7901	A-7
P7902	A-1
PP1101	A-7
PP3002	D-4
PP3401	E-4
PP3402	E-3
PP3403	E-2
PP3501	D-5

ADDRESS INFORMATION


MT1501
M
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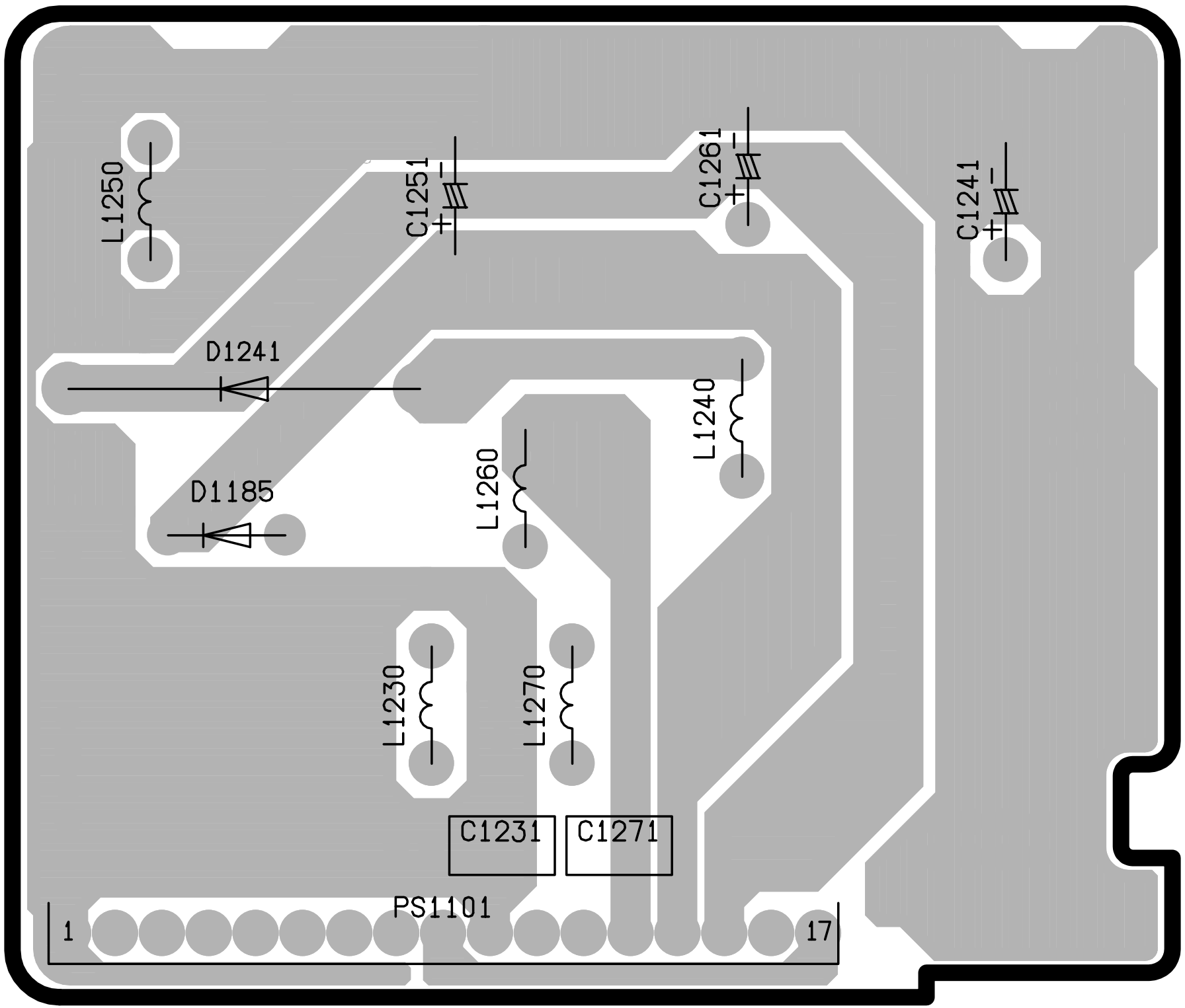
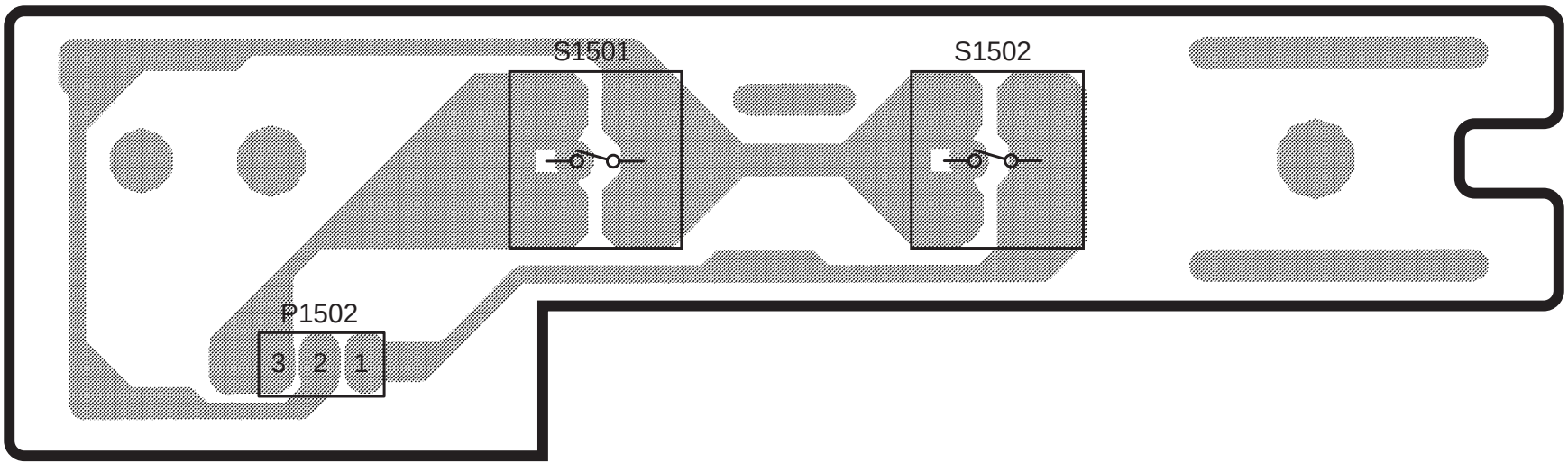
+


L1250
C1251
C1261
C1241
D1241
L1240
L1260
D1185
L1230
L1270
C1231
C1271
PS1101
1
17

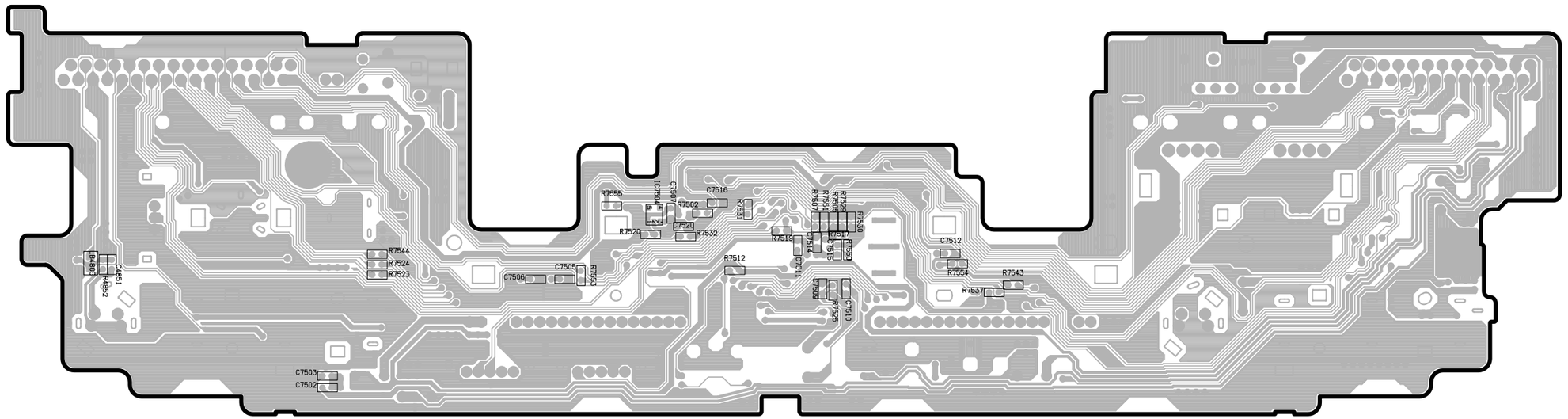

S1501
S1502
P1502
3
2
1

Precautions for maintenance of timer/main C.B.A.

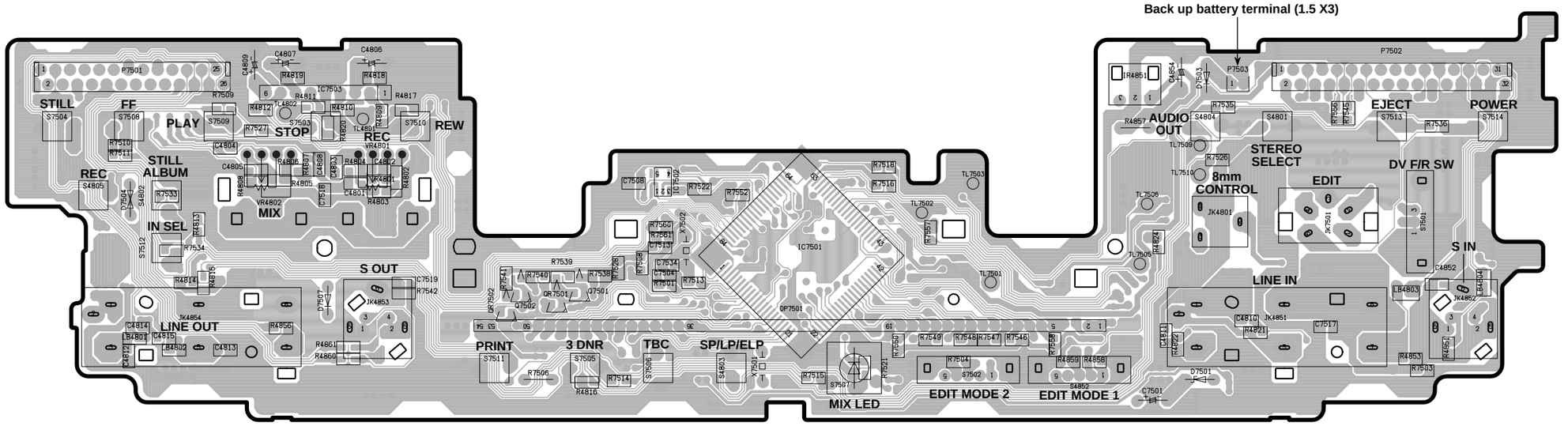
Disconnection of the flexible cable between P7502 and P7901 for maintenance or check of the timer/main C.B.A. without applying any voltage will cause the loss of the back up +B of the timer microcomputer. Be sure to apply a voltage of +4.5 V to the connector of P7503 before disconnecting the flexible cable.
If the back up +B is lost, the CH setting and data of the timer will be initialized

TIMER C.B.A.	
Transistor	
Q7501	A-4
Q7502	A-3
Transistor & Resistor	
QR7501	A-3
QR7502	A-3
Integrated Circuit	
IC7501	B-5
IC7502	B-4
IC7503	B-2
IC7504	D-4
Test Land	
TL4801	B-3
TL4802	B-2
TL7501	A-5
TL7502	B-5
TL7503	B-5
TL7505	A-6
TL7506	B-6
TL7509	B-6
TL7510	B-6
Adjstment	
VR4801	B-3
VR4802	B-2
Connector	
P7501	B-2
P7502	B-7
P7503	B-6

ADDRESS INFORMATION

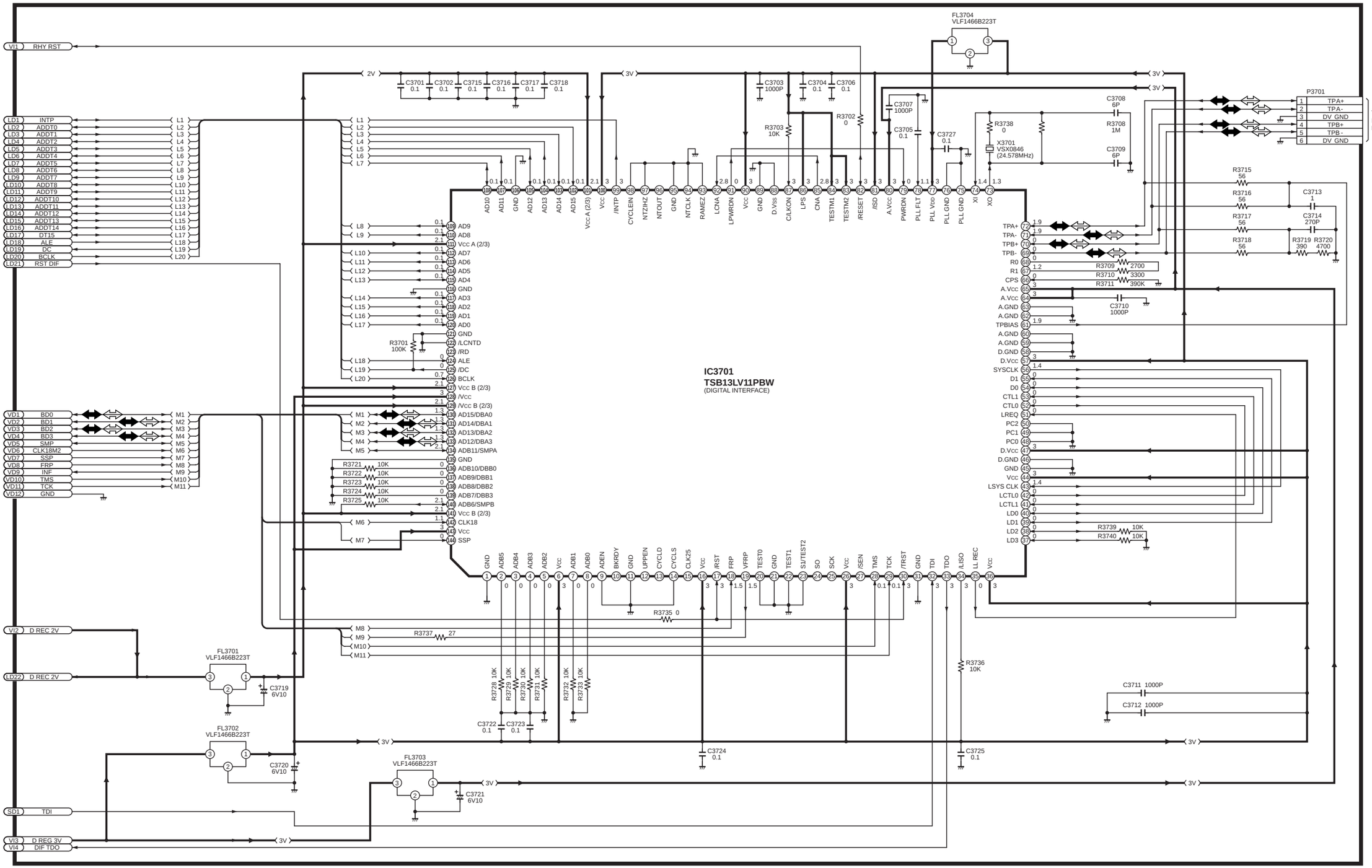


(FOIL SIDE)



(COMPONENT SIDE)

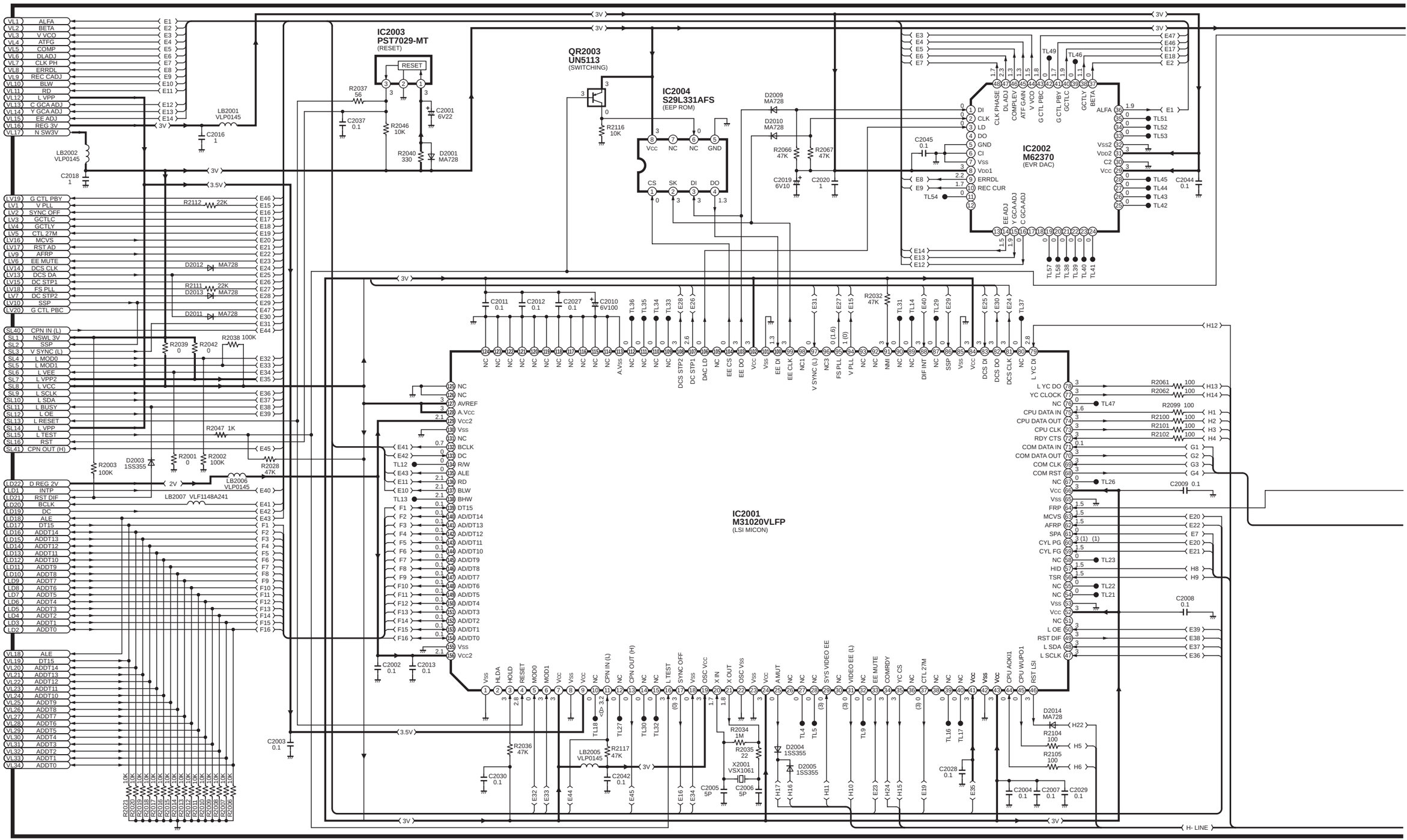
VIDEO MAIN SIGNAL PATH IN REC MODE VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE



SL : TO DIGITAL (SYSTEM CONTROL & SERVO)
VD : TO DIGITAL (VIDEO 1)
VI : TO DIGITAL (VIDEO 2)
LD : TO DIGITAL (LSI MICON)

NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS PLAYBACK MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS < > ON THIS DIAGRAM IS RECORD MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz

NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC
DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.



(SL) : TO DIGITAL (SYSTEM CONTROL & SERVO)
(LD) : TO DIGITAL (DIGITAL I/F)
(LV) : TO DIGITAL (VIDEO 1)
(VL) : TO DIGITAL (VIDEO 2)

NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS PLAYBACK MODE
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THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS < > ON THIS DIAGRAM IS RECORD MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz

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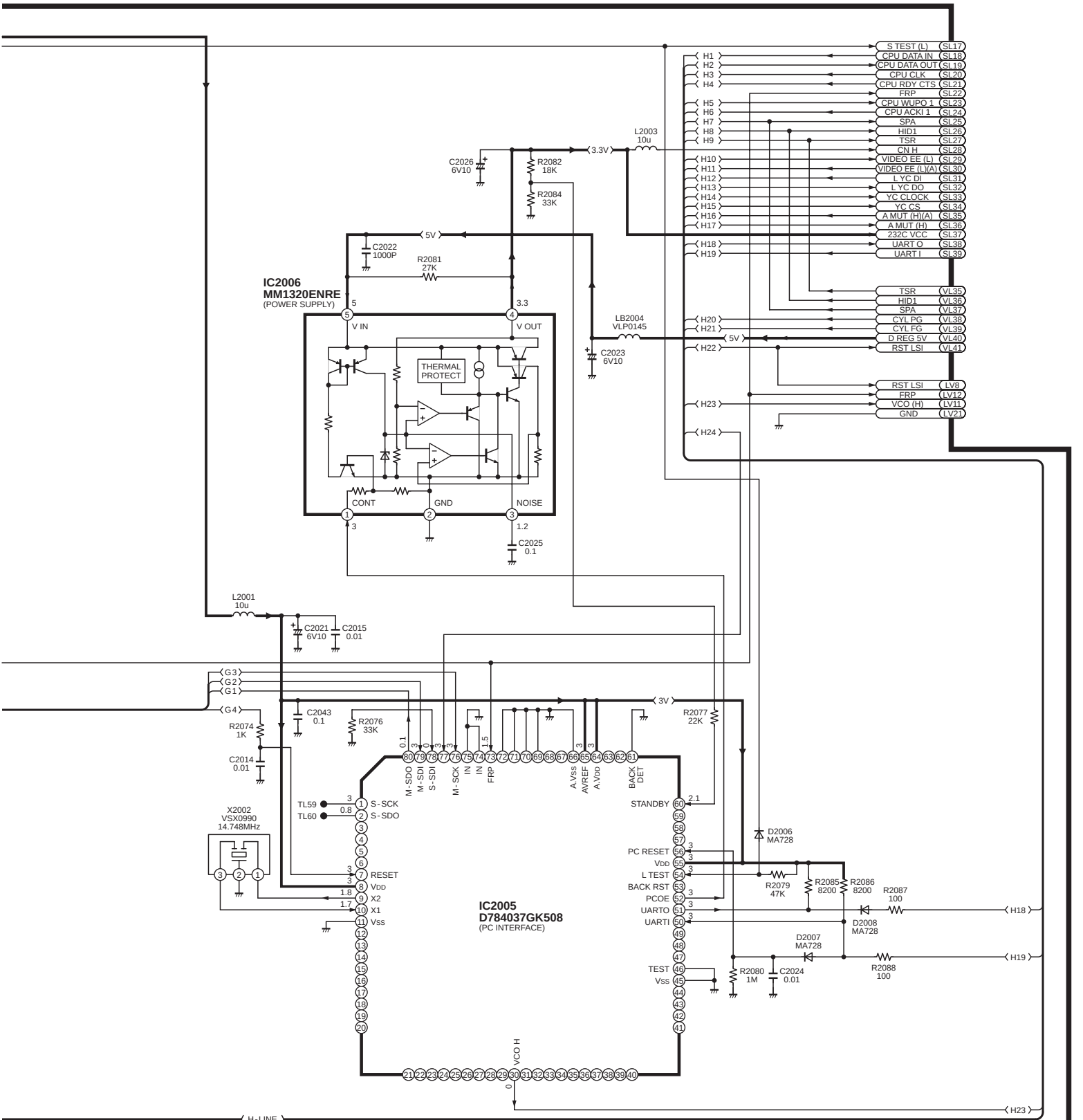
DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.



(SL) : TO DIGITAL (SYSTEM CONTROL & SERVO)
(LV) : TO DIGITAL (VIDEO 1)
(LD) : TO DIGITAL (DIGITAL I/F)
(VL) : TO DIGITAL (VIDEO 2)

NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS PLAYBACK MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS < > ON THIS DIAGRAM IS RECORD MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz

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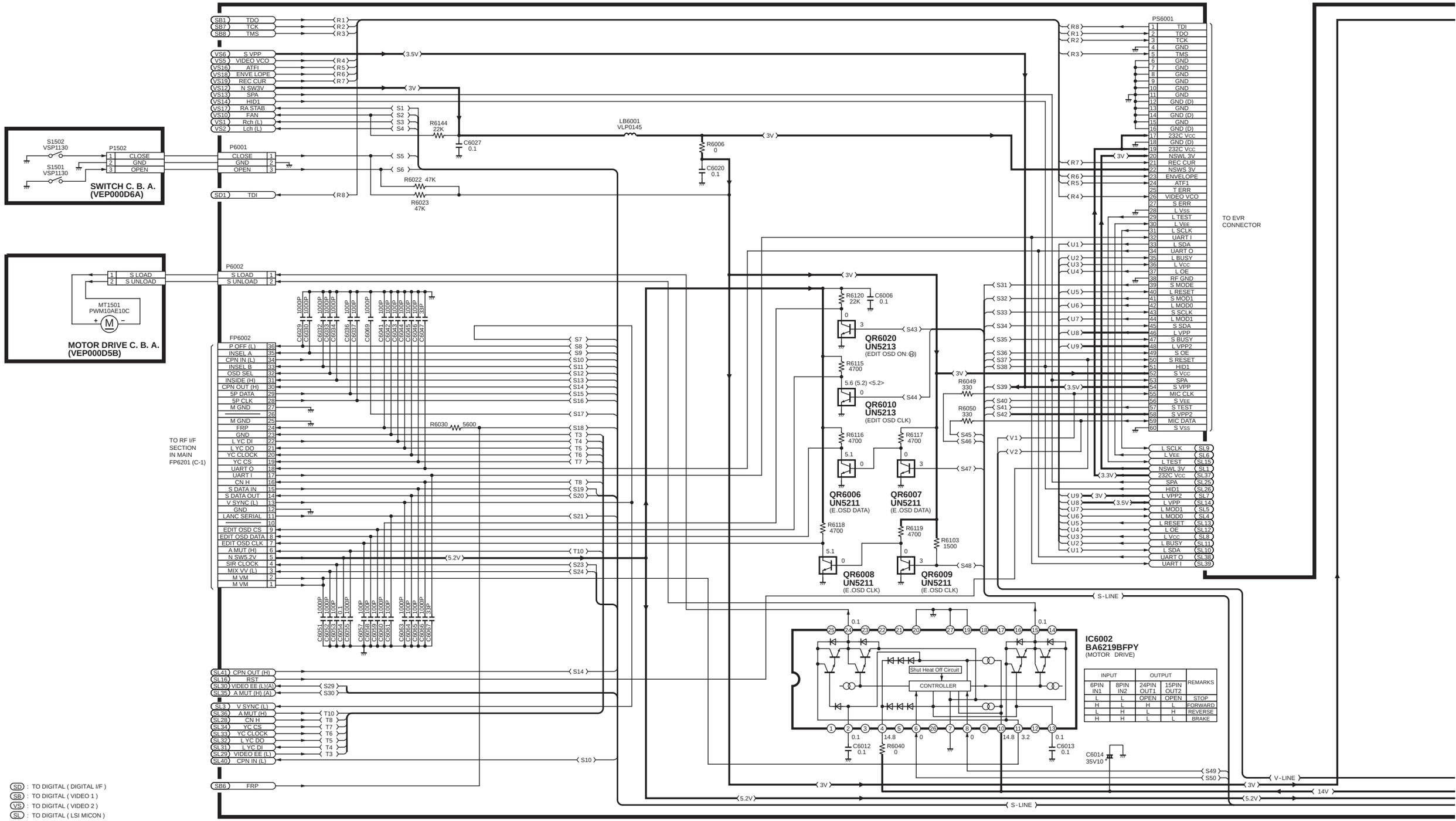

NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE
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THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS < > ON THIS DIAGRAM IS RECORD MODE
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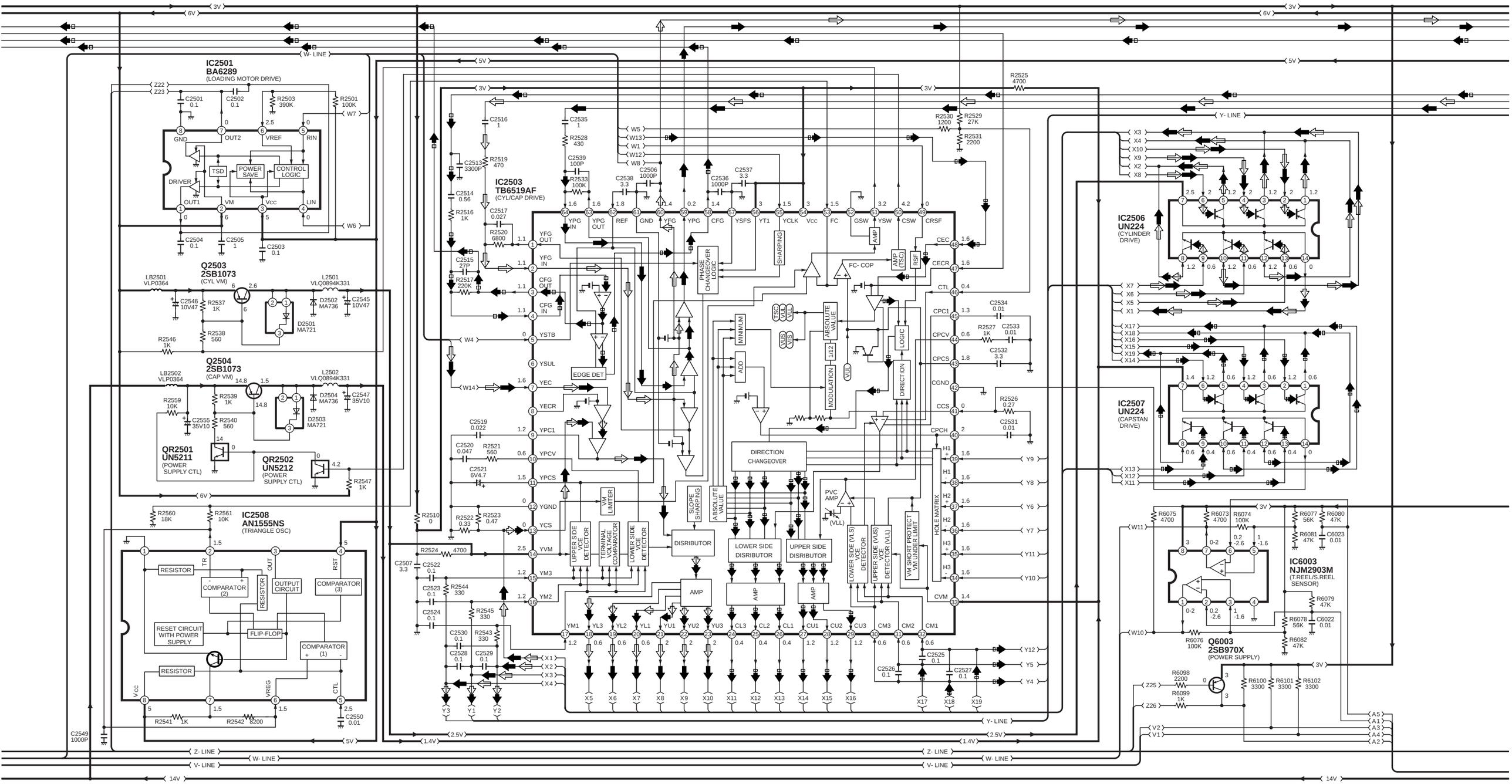
CAPSTAN SERVO SPEED AND PHASE LOOP　CYLINDER SERVO SPEED LOOP　CYLINDER SERVO PHASE LOOP



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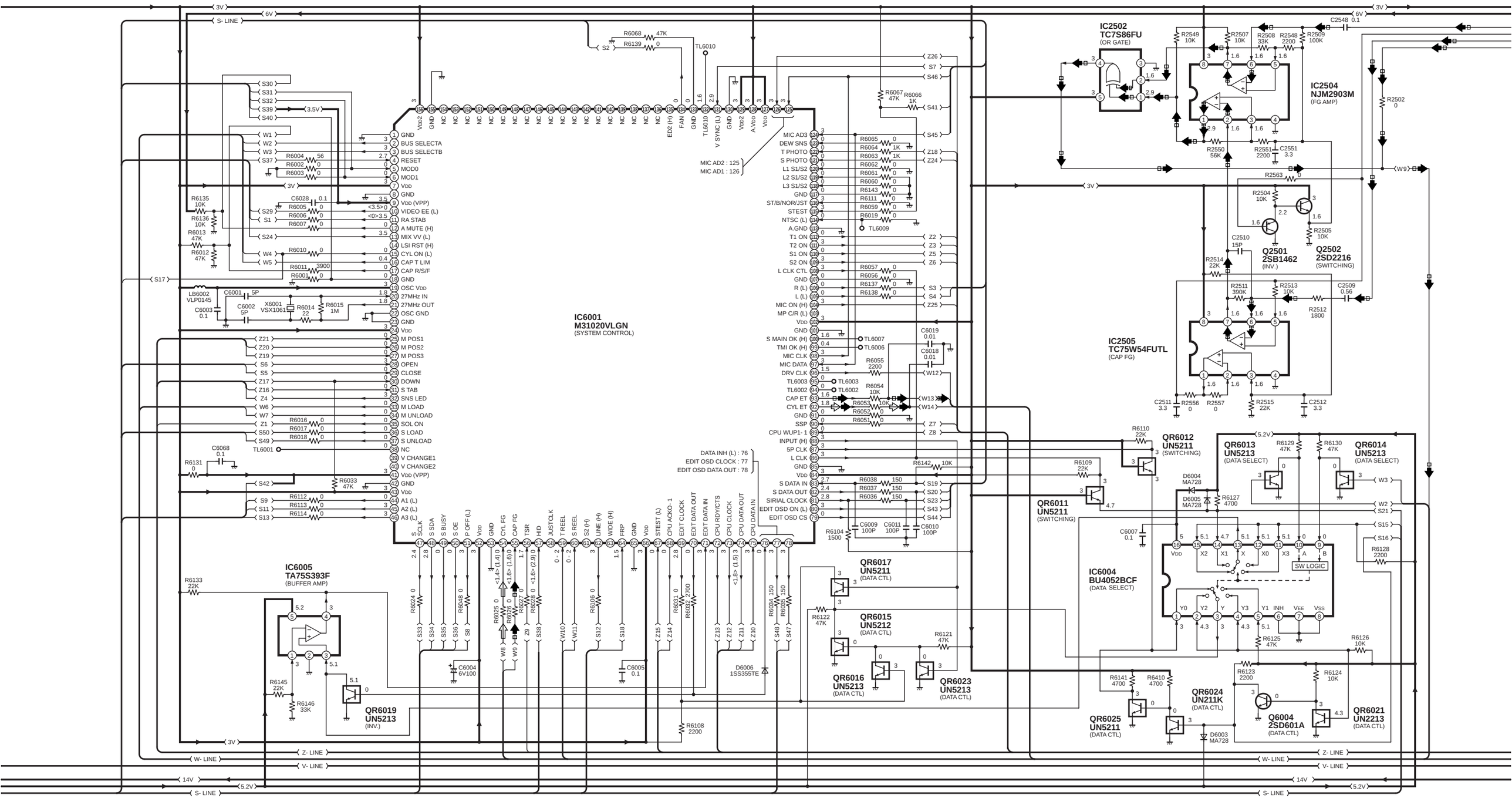
CAPSTAN SERVO SPEED AND PHASE LOOP

CYLINDER SERVO SPEED LOOP

CYLINDER SERVO PHASE LOOP



NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE
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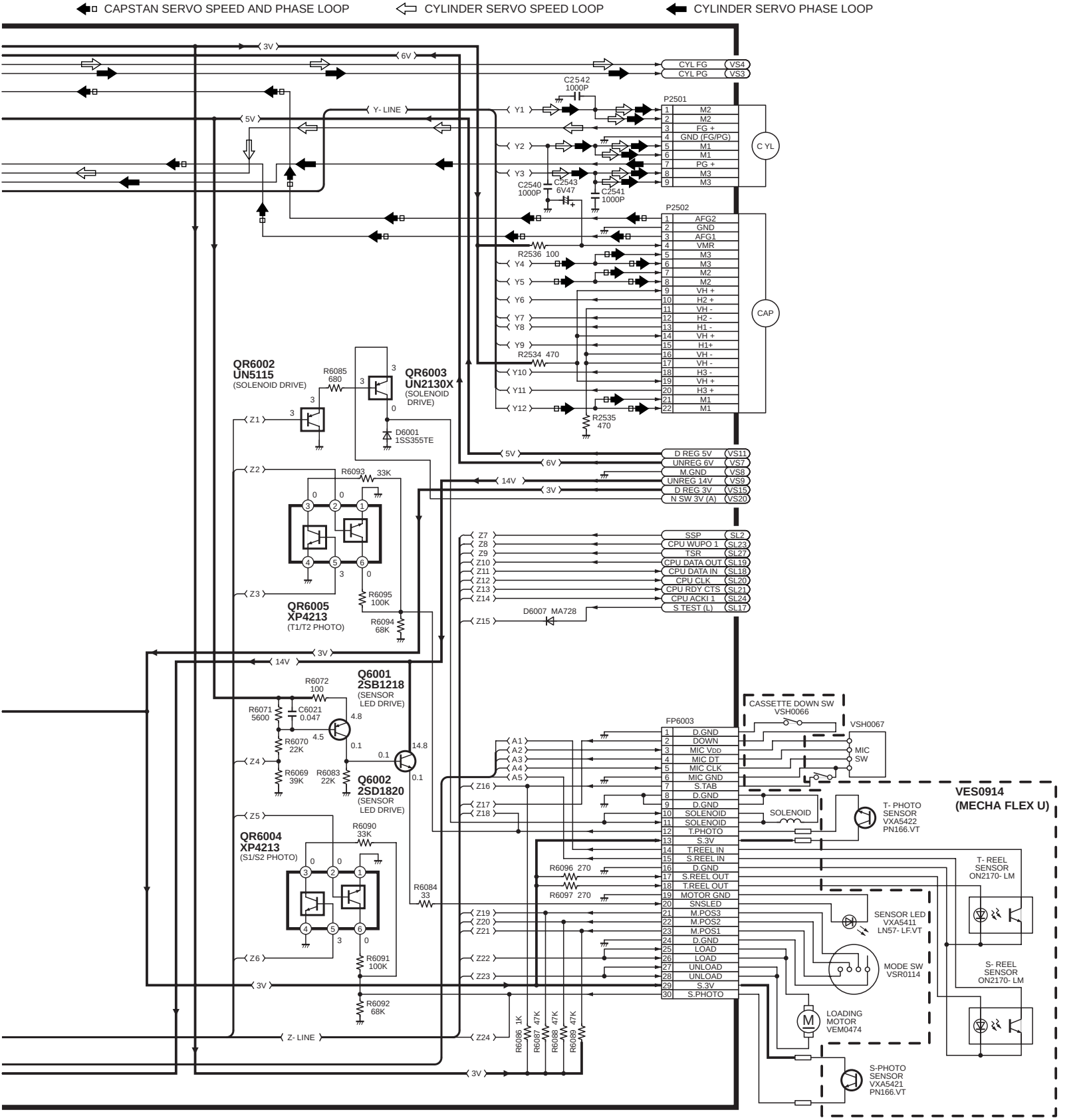

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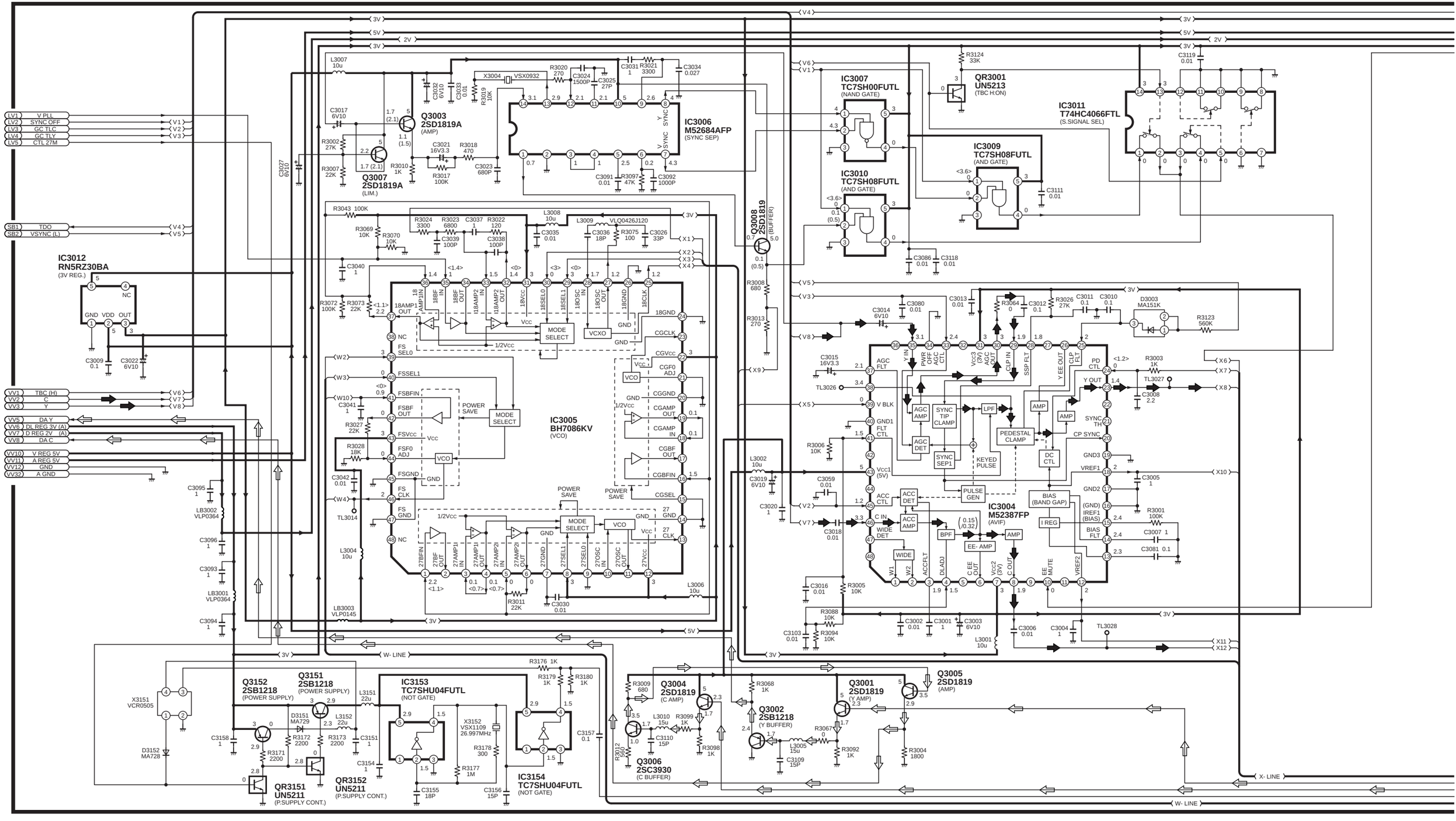
DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART,
PLEASE REFER TO PARTS LIST.

(SB) : TO DIGITAL (DIGITAL I/F)
(SB) : TO DIGITAL (VIDEO 1)
(VS) : TO DIGITAL (VIDEO 2)
(SL) : TO DIGITAL (LSI MICON)

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE



(SD) : TO DIGITAL (SYSTEM CONTROL & SERVO)
(VD) : TO DIGITAL (DIGITAL I/F)
(VV) : TO DIGITAL (VIDEO 2)
(LV) : TO DIGITAL (LSI MICON)

NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE
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WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS < > ON THIS DIAGRAM IS RECORD MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz

NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

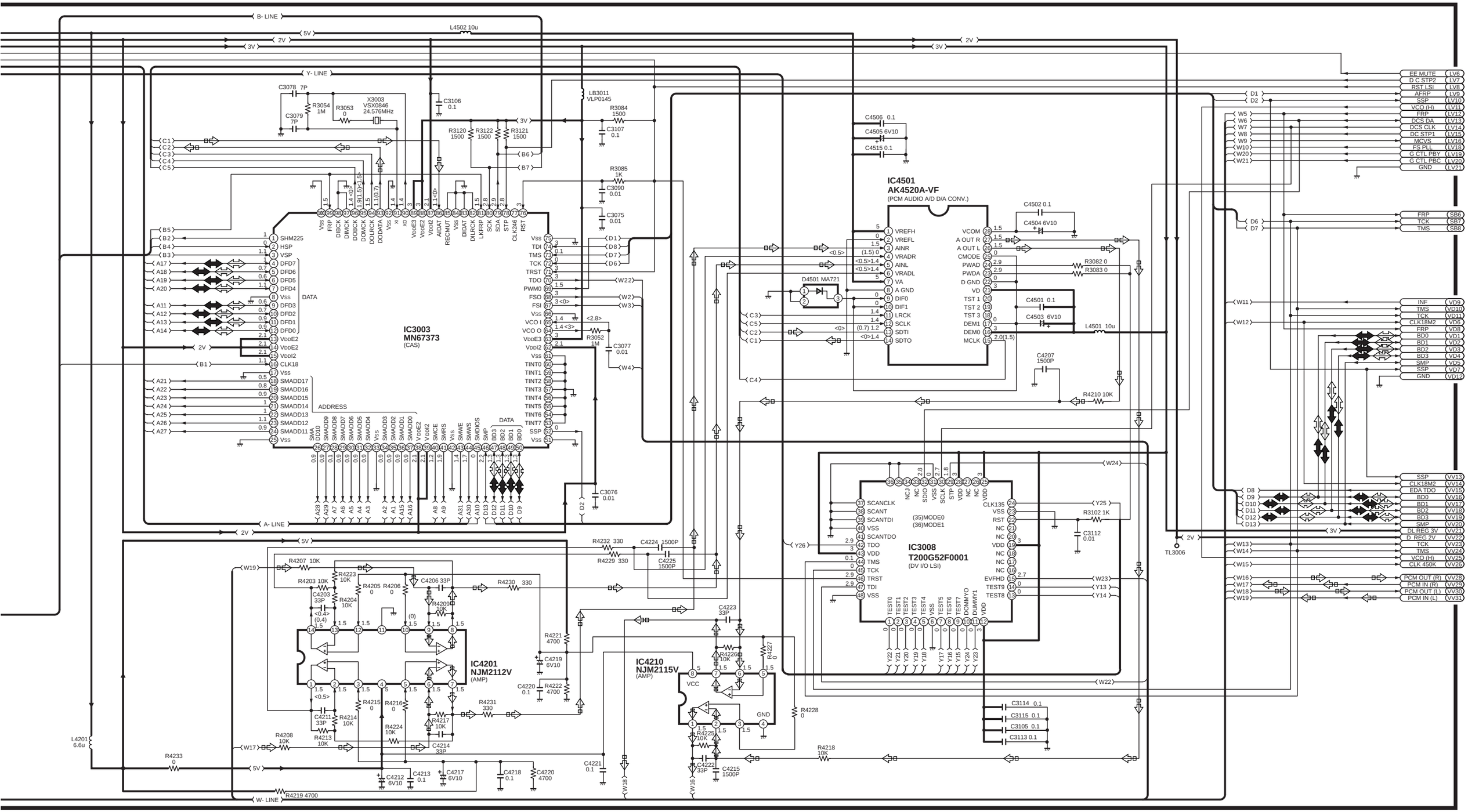
E D C B A

1 2 3 4 5 6 7 8 9

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH (REC or PLAYBACK MODE)



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(VD) : TO DIGITAL (DIGITAL I/F)
(VV) : TO DIGITAL (VIDEO 2)
(LV) : TO DIGITAL (LSI MICON)

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

IC3001
T9P90EN
(DV I/O)

IC3002
MN47V07AF
(SHUFFLE MEMORY)

NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE
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THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS PLAYBACK MODE
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VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN REC MODE

TO RF I/F SECTION IN MAIN FP3401(C-12)

FP3201

1	GND	36	
2	EE ADJ	35	I1
3	——	34	I2
4	——	33	I3
5	GND	32	
6	Y	31	
7	GND	30	
8	C	29	I4
9	GND	28	I5
10	DA Y	27	I6
11	GND	26	
12	DA C	25	I7
13	GND	24	
14	PCM IN (R)	23	I8
15	A.GND	22	
16	PCM IN (L)	21	I9
17	A.GND	20	
18	PCM OUT (R)	19	I10
19	A.GND	18	
20	PCM OUT (L)	17	I11
21	GND	16	
22	H REG 3V	15	
23	H REG 3V	14	
24	GND	13	
25	H REG 5V	12	
26	H REG 5V	11	
27	GND	10	
28	V REG 3V	9	
29	V REG 3V	8	
30	GND	7	
31	V REG 5V	6	
32	V REG 5V	5	
33	A REG 5V	4	
34	A REG 5V	3	
35	Lch (L)	2	I12
36	Rch (L)	1	I13

C3285 1000P, C3284 1000P, C3283 1000P, C3282 0.1, C3281 0.1, C3279 0.1, C3270 0.1

VV11	A REG 5V		
VV30	PCM OUT (L)		I11
VV28	PCM OUT (R)		I10
VV31	PCM IN (L)		I9
VV12	GND		
VV29	PCM IN (R)		I8
VV8	DA C		I7
VV5	DA Y		I6
VV2	C		I5
VV3	Y		I4
VV3	A GND		

VL15	EE ADJ	I1
VL14	Y GCA ADJ	I2
VL13	C GCA ADJ	I3
VL35	TSR	J1
VL34	ADDT0	J2
VL33	ADDT1	J3
VL32	ADDT2	J4
VL31	ADDT3	J5
VL30	ADDT4	J6
VL29	ADDT5	J7
VL28	ADDT6	J8
VL27	ADDT7	J9
VL26	ADDT8	J10
VL25	ADDT9	J11
VL24	ADDT10	J12
VL23	ADDT11	J13
VL22	ADDT12	J14
VL21	ADDT13	J15
VL20	ADDT14	J16
VL19	DT15	J17
VL10	BLW	J18
VL11	RD	J19
VL18	ALE	J20
VL38	CYL PG	J21
VL39	CYL FG	J22
VL41	RST LSI	J23

VS1	Rch (L)	I13
VS2	Lch (L)	I12
VS3	CYL PG	
VS4	CYL FG	
VS5	VIDEO VCO	

IC3205
TC7SH08FUTL
(AND GATE)

VI4	DIF TDO	
VI2	D REG 2V	
VV32	A GND	
VV25	VCO (H)	K1
VV24	TMS	K2
VV23	TCK	K3
VV15	EDA TDO	K4
VV13	SSP	K5
VV16	BD0	K6
VV17	BD1	K7
VV18	BD2	K8
VV19	BD3	K9
VV20	SMP	K10
VV26	CLK450K	K11
VV14	CLK18M2	K12
VV22	D REG 2V	
VV21	DL REG 3V	
VV10	V REG 5V	

IC3201
M65501FP
(EDA IC)

ADDRESS / DATA

J20	125	ALE
	126	VddI2M
	127	VssI
	128	VddI3
	129	CS
J23	130	RST
J22	131	CYLFG
J21	132	CYLPG
	133	PTST0
	134	PTST1
	135	PTST2
	136	PTST3
	137	SCANM
	138	SCANI
	139	SCANO
	140	VddI
	141	VssI
	142	TRST
K2	143	TMS
K1	144	TDI
K3	145	TCK
K4	146	TDO
	147	VddI3
K5	148	SSP
	149	VssO
	150	VddO2B
K6	151	BD0
K7	152	BD1
K8	153	BD2
K9	154	BD3
K10	155	SMP
	156	VddI2B

DATA

1	VssI	
2	CLK450	K11
3	CLK18	K12
4	VddI2	
5	VssO	
6	VddO3R	
7	LCAS	
8	UCAS	
9	OE	
10	A8	L1
11	A7	L2
12	A6	L3
13	A5	L4
14	A4	L5
15	A3	L6
16	A2	L7
17	A1	L8
18	A0	L9
19	RAS	L10
20	WE	L11
21	VssO	L12
22	VddO3R	L13
23	VssI	L14
24	VddI	
25	DQ15	L15
26	DQ14	L16
27	DQ13	L17
28	DQ12	L18
29	DQ11	L19
30	DQ10	L20
31	DQ9	L21
32	DQ8	L22
33	DQ7	L23
34	DQ6	L24
35	DQ5	L25
36	DQ4	L26
37	DQ3	L27
38	DQ2	L28
39	DQ1	L29
40	DQ0	L30
41	VddO3R	
42	VssO	
43	A.GND	
44	A.GND	
45	D.GND	
46	VBTM	

ADDRESS

MEMORY

DATA

124	RD	
123	DLW	
122	VssO	
121	VddO2M	
120	DT15	
119	ADDT14	J16
118	ADDT13	J15
117	ADDT12	J14
116	ADDT11	J13
115	ADDT10	J12
114	ADDT9	J11
113	ADDT8	J10
112	VssO	
111	VddO2M	
110	ADDT7	J9
109	ADDT6	J8
108	ADDT5	J7
107	ADDT4	J6
106	ADDT3	J5
105	ADDT2	J4
104	ADDT1	J3
103	ADDT0	J2
102	VddO2M	
101	VddI	
100	VssI	
99	VssO	
98	VddO3	
97	TSR	J1
96	SPA	N7
95	VSBST	TL3207
94	FE	
93	HID1	N8
92	HID2	N14
91	HID3	N13
90	RECI	N16
89	PBH	N15
88	RECCTRL	N12
87	VddO3	
86	SYNCNL	N1
85	IDEC01	
84	IDEC02	
83	IDEC03	
82	IDEC04	
81	IDEC05	
80	IDEC06	
79	IDEC07	
78	IDECP	
77	VITON	
76	TRICK	
75	MEMP	
74	REFCLK	
73	CKPHASE	
72	VCOCTL	
71	ADSTB	M1
70	VddO3	
69	VssO	
68	ADDAT6	M2
67	ADDAT5	M3
66	ADDAT4	M4
65	ADDAT3	M5
64	ADDAT2	M6
63	ADDAT1	M7
62	ADDAT0	M8
61	VddI3	
60	VssI	
59	HSE	
58	VddO2	
57	VddO3	
56	RECCLK	
55	EQHLD	
54	VssD	
53	PBCLK	
52	PBDAT	
51	VddI3	
50	D.Vcc3	
49	A.Vcc3	
48	ATFI	
47	VTOP	

PB DATA IN

REC DATA

IC3202
MNV4260DTA7
(ECC MEMORY)

44	Vss	43	DQ16	42	DQ15	41	DQ14	40	DQ13	39	Vss	38	DQ12	37	DQ11	36	DQ10	35	DQ9	34	33	32	NC
1	Vcc	2	DQ1	3	DQ2	4	DQ3	5	DQ4	6	Vcc	7	DQ5	8	DQ6	9	DQ7	10	DQ8	11	12	13	NC

31	/LCAS	30	/UCAS	29	/OE	28	A8	27	A7	26	A6	25	A5	24	A4	23	Vss						
14	NC	15	WE	16	RAS	17	NC	18	A0	19	A1	20	A2	21	A3	22	Vcc						

IC3204
AD9057BRS-60
(VITERBI A/D)

20	DO0	19	DO1	18	DO2	17	DO3	16	GND	15	D.Vcc	14	DO4	13	DO5	12	DO6	11	DO7				
1	PWRDWN	2	REF OUT	3	REF IN	4	GND	5	A.Vcc	6	BIAS OUT	7	AIN	8	A.Vcc	9	GND	10	ENCODE				

C3258 0.1, C3201 0.01, C3202 0.01, C3208 0.1, C3257 6V47, L3208 22u, C3241 0.1, C3239 6V10, C3242 0.1, C3240 0.01, L3205 10u, R3230 0

R3213 6800, R3214 1K, R3229 220K, R3248 1000, R3257 120K, L3201 10u, C3207 0.01, C3205 6V10, C3206 0.01, C3203 0.1, C3204 0.1, L3204 10u, C3243 0.01

C3259 0.01, C3260 0.1, C3232 0.01, R3201 1K, R3245 10K

3V, 5V, 2V, N- LINE, N10

(VS) : TO DIGITAL (SYSTEM CONTROL & SERVO)
(VI) : TO DIGITAL (DIGITAL I/F)
(VV) : TO DIGITAL (VIDEO 1)
(VL) : TO DIGITAL (LSI MICON)

NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... 400B 1kHz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... 400dB 1kHz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS < > ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... 400dB 1kHz

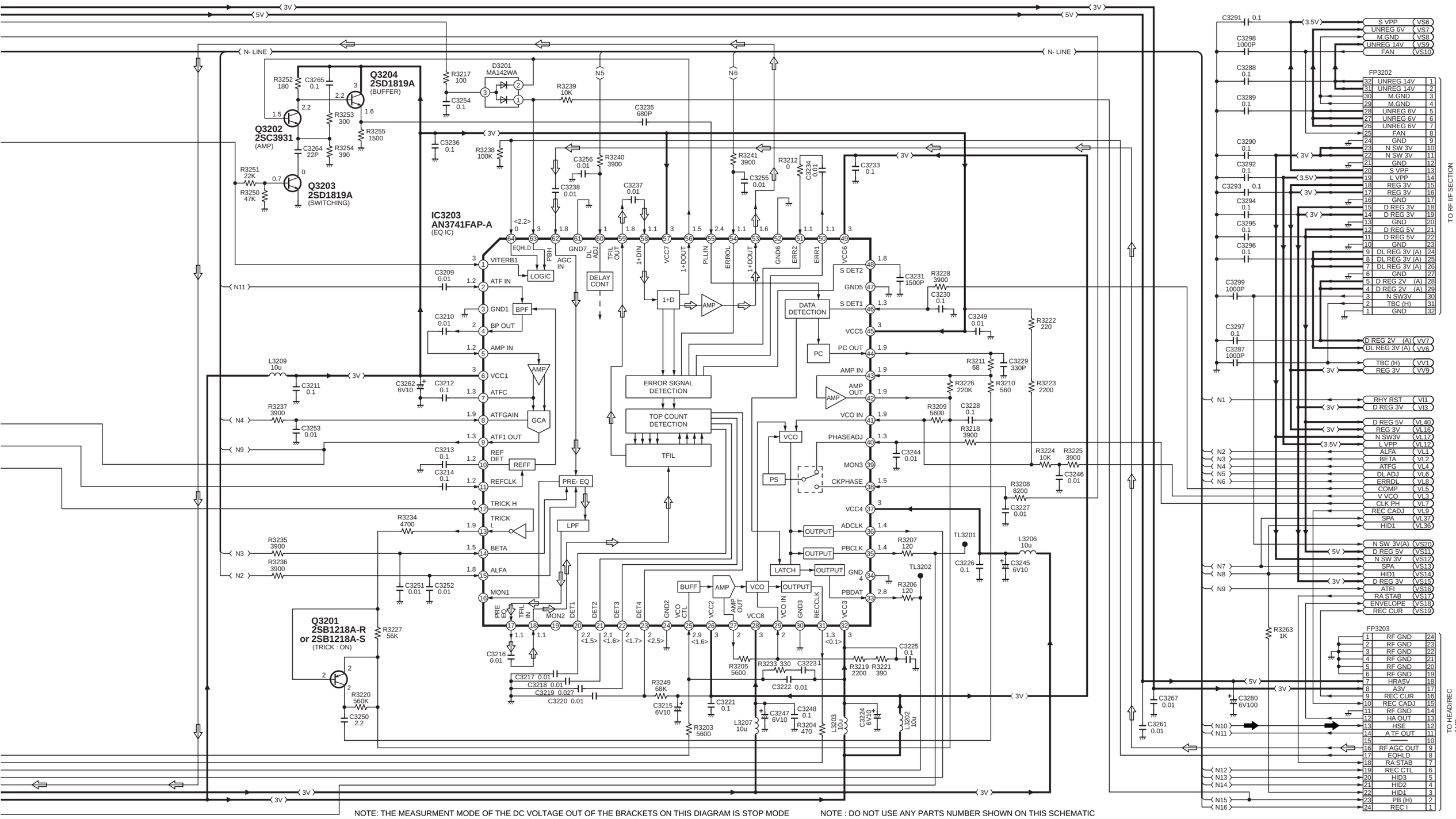
NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

E D C B A

1 2 3 4 5 6 7 8 9

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE



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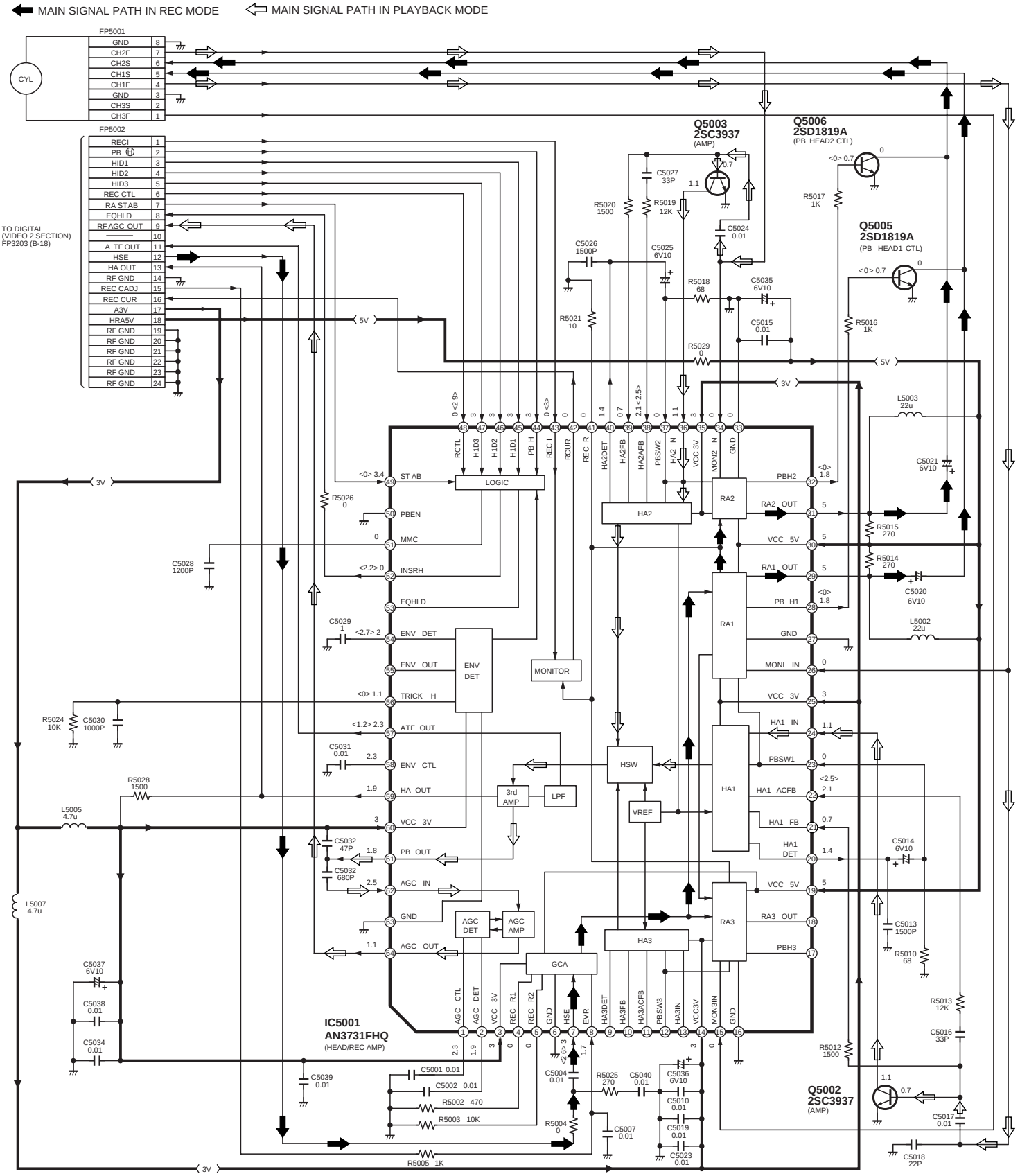

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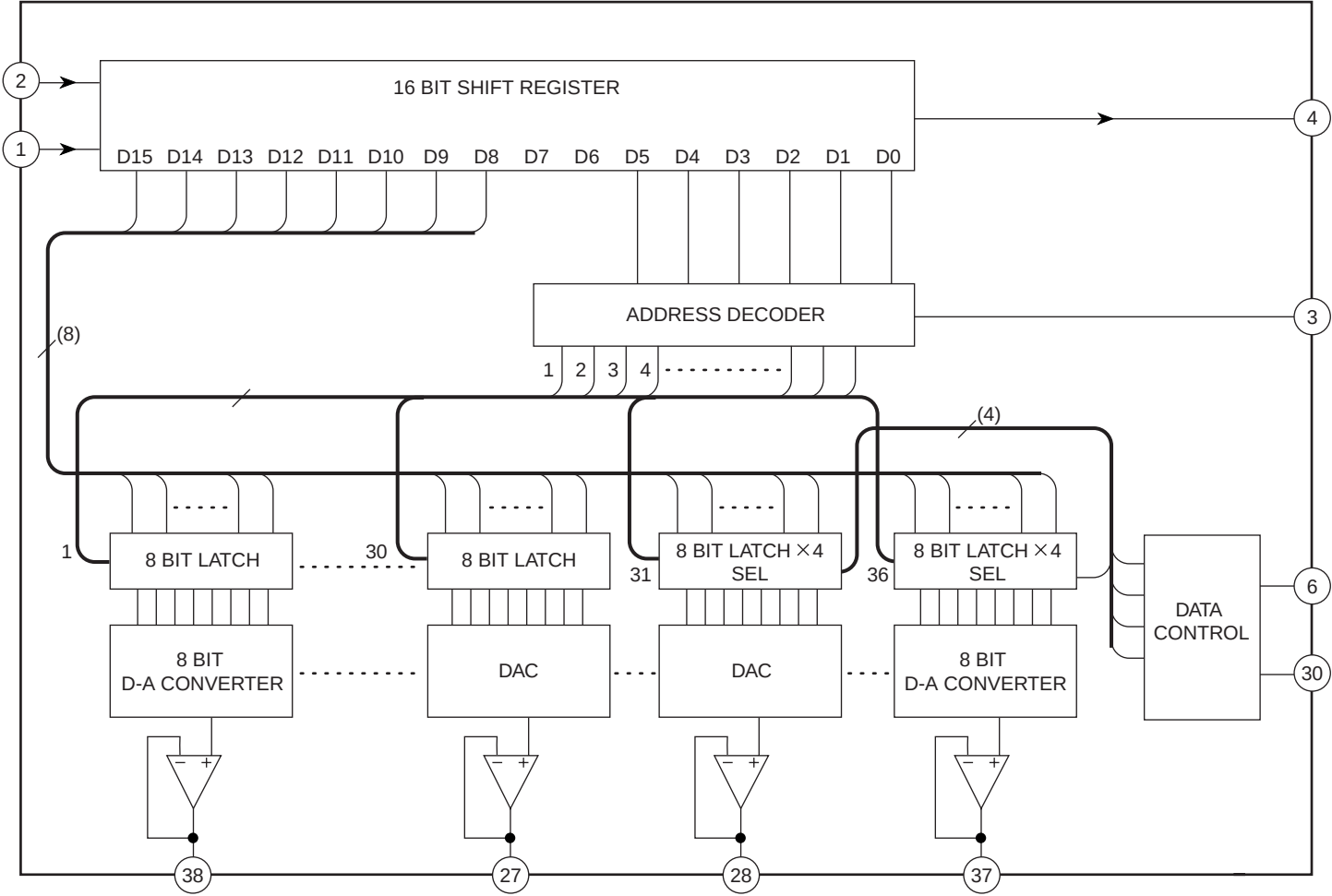
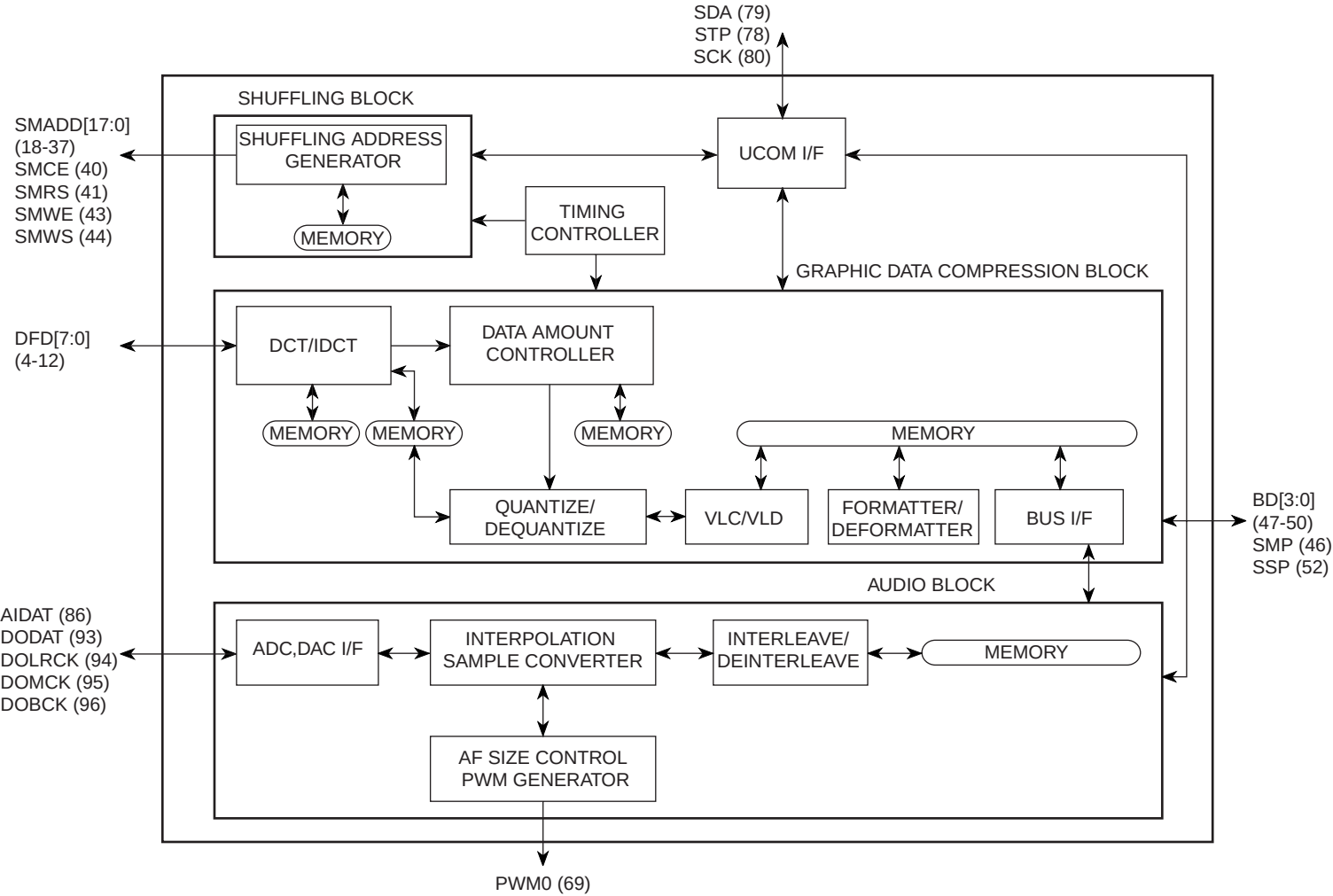
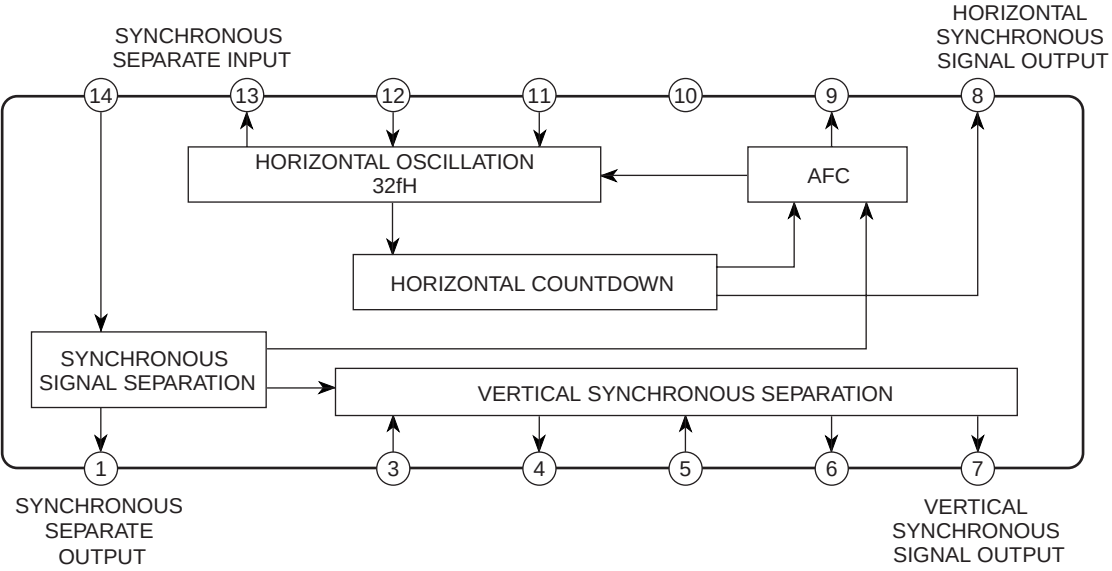
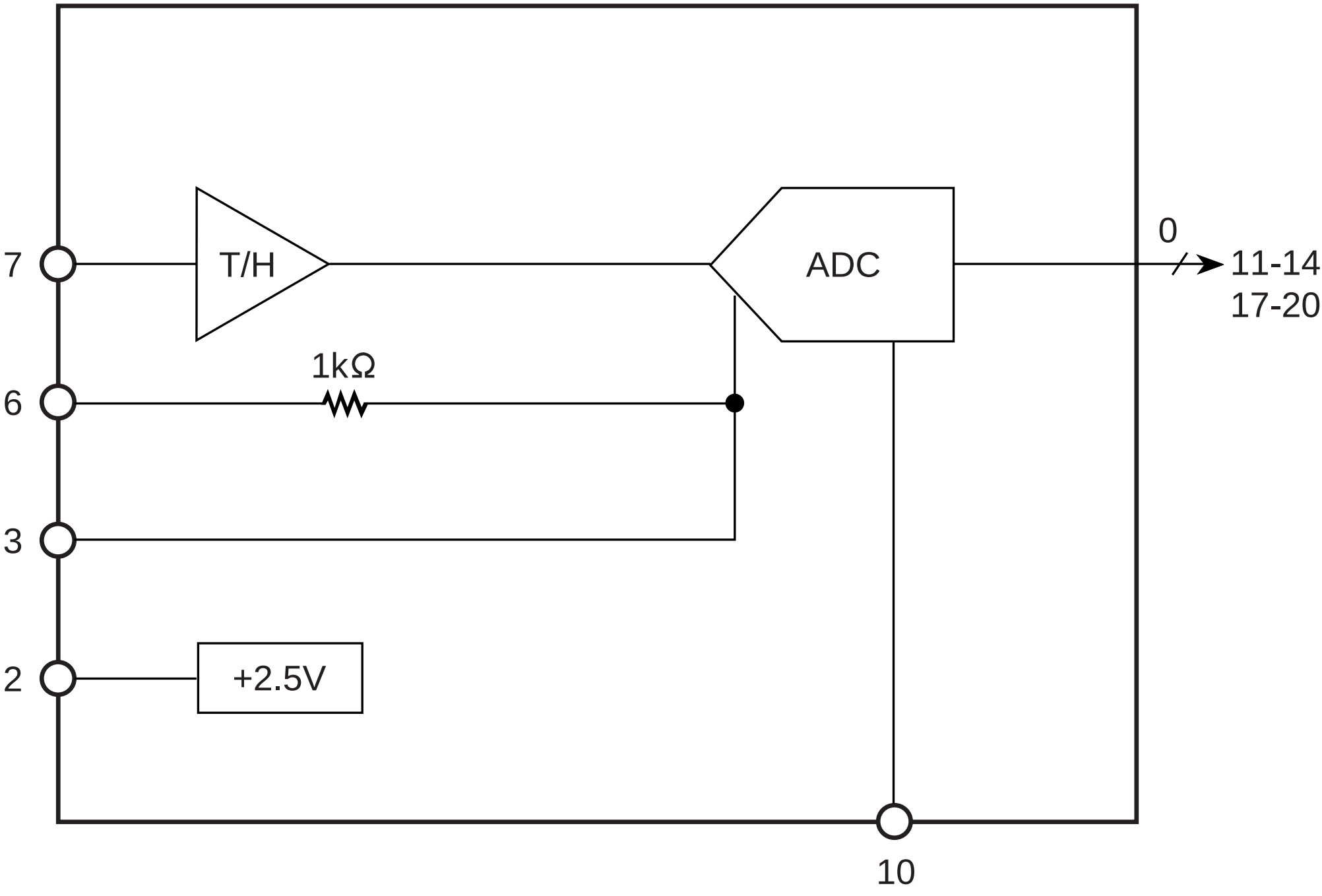
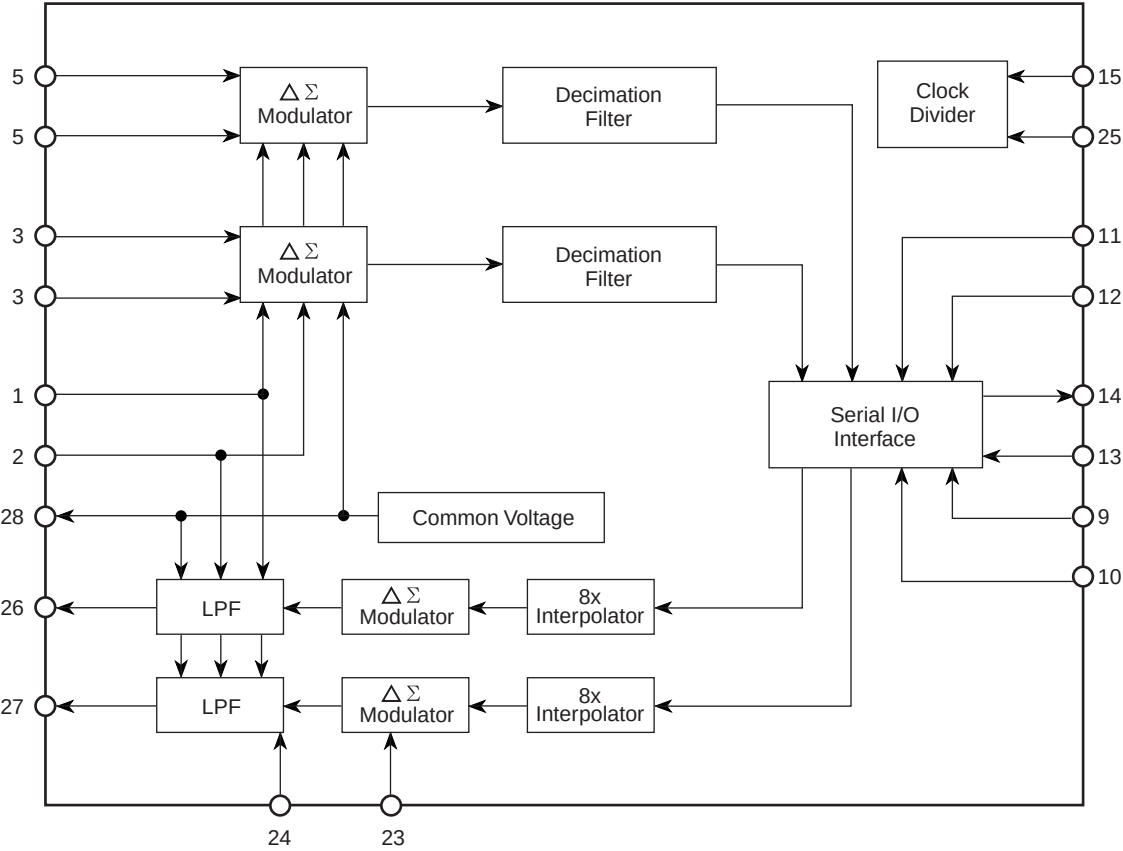
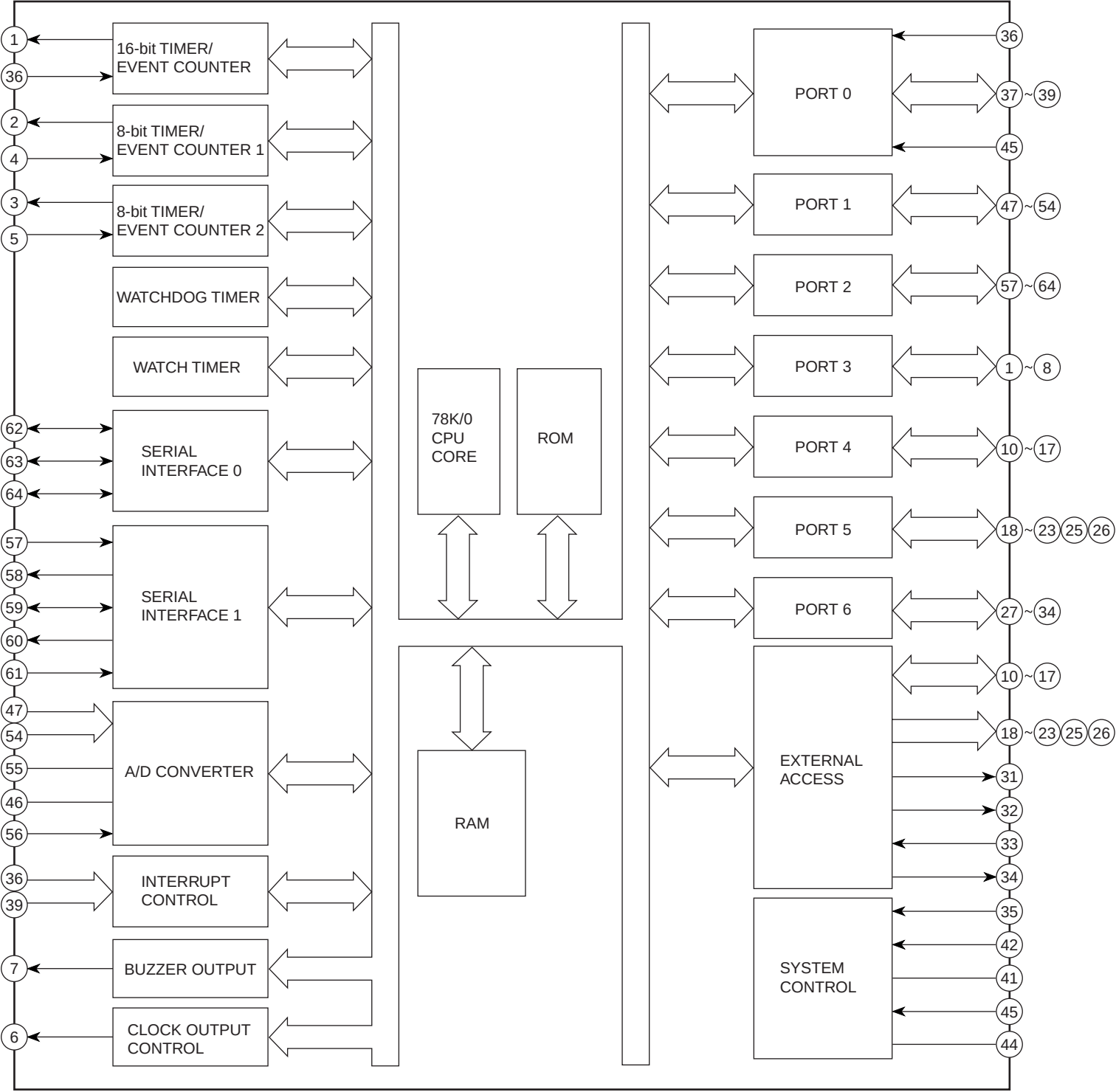

2
1
16 BIT SHIFT REGISTER
D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
4
(8)
ADDRESS DECODER
3
1 2 3 4
(4)
1
8 BIT LATCH
30
8 BIT LATCH
31
8 BIT LATCH ×4
SEL
36
8 BIT LATCH ×4
SEL
DATA
CONTROL
6
30
8 BIT
D-A CONVERTER
DAC
DAC
8 BIT
D-A CONVERTER
38
27
28
37

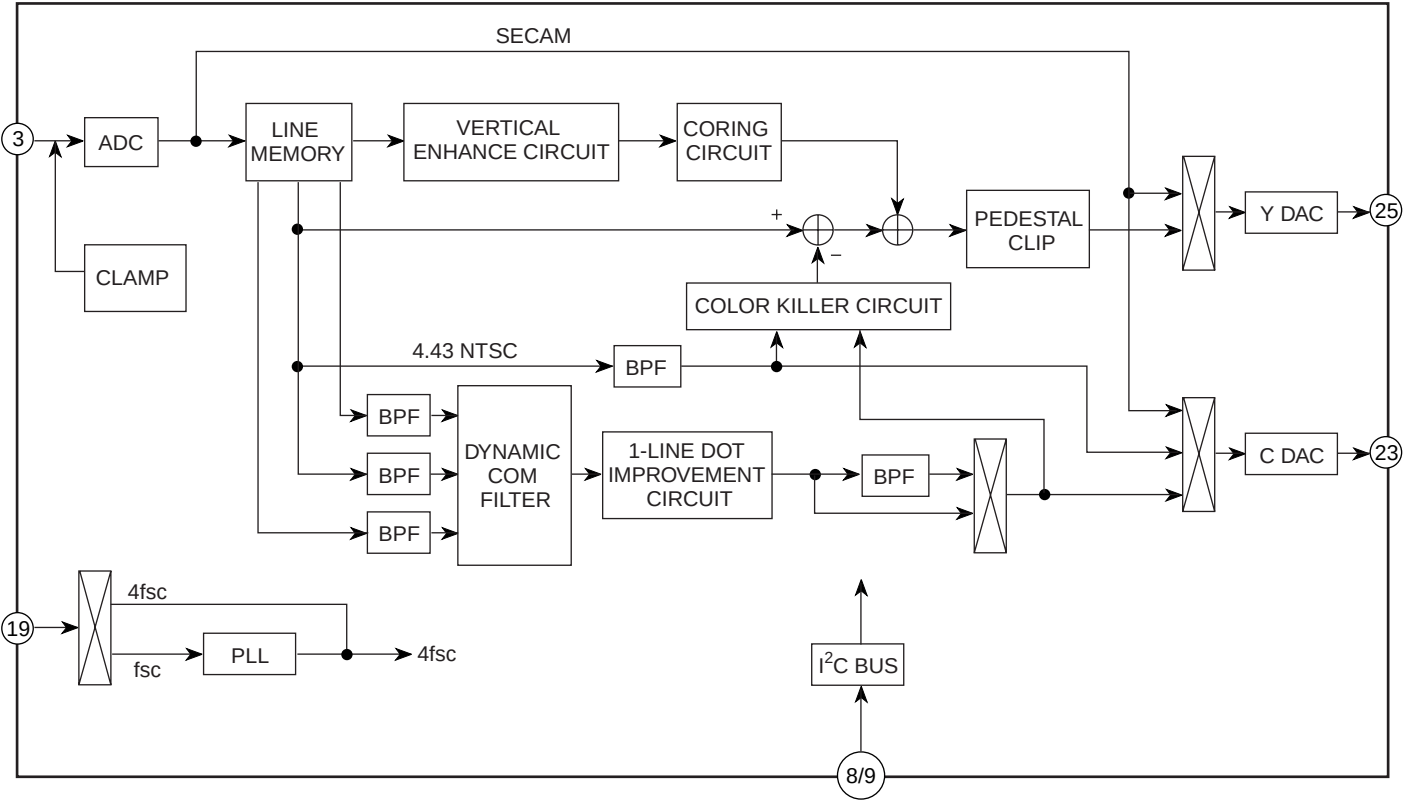

SDA (79)
STP (78)
SCK (80)
SHUFFLING BLOCK
SMADD[17:0]
(18-37)
SMCE (40)
SMRS (41)
SMWE (43)
SMWS (44)
SHUFFLING ADDRESS GENERATOR
MEMORY
TIMING CONTROLLER
UCOM I/F
GRAPHIC DATA COMPRESSION BLOCK
DFD[7:0]
(4-12)
DCT/IDCT
DATA AMOUNT CONTROLLER
MEMORY
MEMORY
MEMORY
MEMORY
QUANTIZE/ DEQUANTIZE
VLC/VLD
FORMATTER/ DEFORMATTER
BUS I/F
BD[3:0]
(47-50)
SMP (46)
SSP (52)
AUDIO BLOCK
AIDAT (86)
DODAT (93)
DOLRCK (94)
DOMCK (95)
DOBCK (96)
ADC,DAC I/F
INTERPOLATION SAMPLE CONVERTER
INTERLEAVE/ DEINTERLEAVE
MEMORY
AF SIZE CONTROL PWM GENERATOR
PWM0 (69)

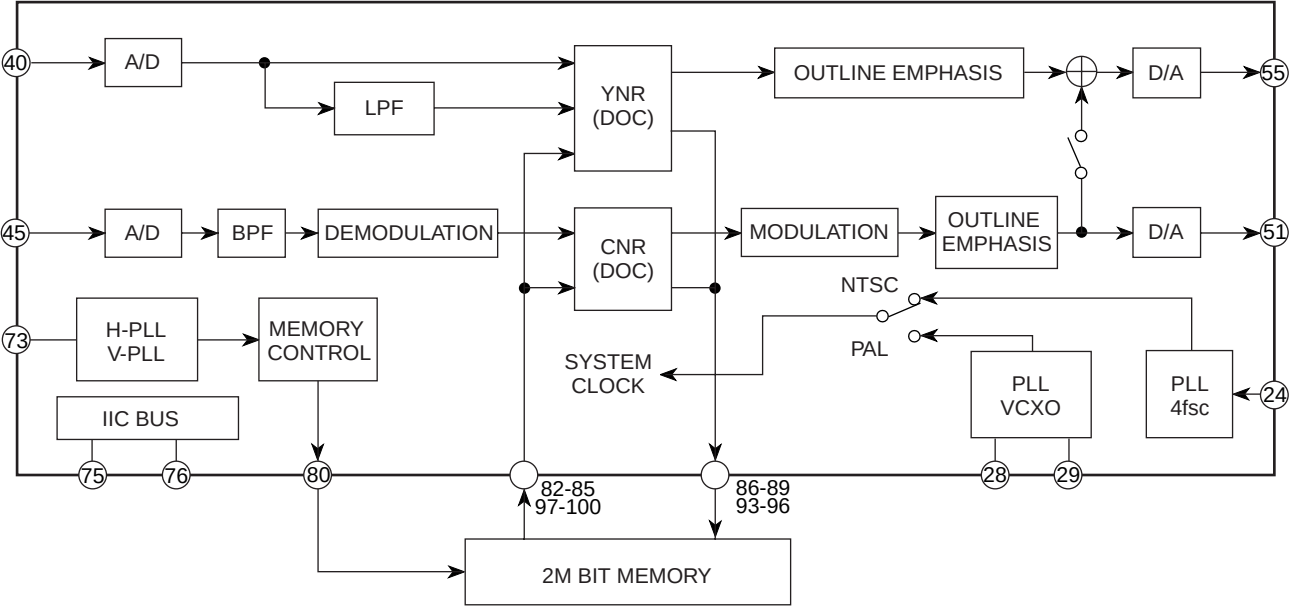

SYNCHRONOUS
SEPARATE INPUT
HORIZONTAL
SYNCHRONOUS
SIGNAL OUTPUT
14
13
12
11
10
9
8
HORIZONTAL OSCILLATION
32fH
AFC
HORIZONTAL COUNTDOWN
SYNCHRONOUS
SIGNAL SEPARATION
VERTICAL SYNCHRONOUS SEPARATION
1
3
4
5
6
7
SYNCHRONOUS
SEPARATE
OUTPUT
VERTICAL
SYNCHRONOUS
SIGNAL OUTPUT


7
T/H
ADC
0
11-14
17-20
1kΩ
6
3
2
+2.5V
10


5
5
3
3
1
2
28
26
27
24
23
15
25
11
12
14
13
9
10
ΔΣ Modulator
ΔΣ Modulator
Decimation Filter
Decimation Filter
Clock Divider
Serial I/O Interface
Common Voltage
LPF
LPF
ΔΣ Modulator
ΔΣ Modulator
8x Interpolator
8x Interpolator


16-bit TIMER/
EVENT COUNTER
8-bit TIMER/
EVENT COUNTER 1
8-bit TIMER/
EVENT COUNTER 2
WATCHDOG TIMER
WATCH TIMER
SERIAL
INTERFACE 0
SERIAL
INTERFACE 1
A/D CONVERTER
INTERRUPT
CONTROL
BUZZER OUTPUT
CLOCK OUTPUT
CONTROL
78K/0
CPU
CORE
ROM
RAM
PORT 0
PORT 1
PORT 2
PORT 3
PORT 4
PORT 5
PORT 6
EXTERNAL
ACCESS
SYSTEM
CONTROL
1
36
2
4
3
5
62
63
64
57
58
59
60
61
47
54
55
46
56
36
39
7
6
36
37 ~ 39
45
47 ~ 54
57 ~ 64
1 ~ 8
10 ~ 17
18 ~ 23 25 26
27 ~ 34
10 ~ 17
18 ~ 23 25 26
31
32
33
34
35
42
41
45
44


SECAM
3
ADC
LINE MEMORY
VERTICAL ENHANCE CIRCUIT
CORING CIRCUIT
CLAMP
+
–
PEDESTAL CLIP
Y DAC
25
COLOR KILLER CIRCUIT
4.43 NTSC
BPF
BPF
BPF
BPF
DYNAMIC COM FILTER
1-LINE DOT IMPROVEMENT CIRCUIT
BPF
C DAC
23
19
4fsc
fsc
PLL
4fsc
I2C BUS
8/9


40
A/D
LPF
YNR
(DOC)
OUTLINE EMPHASIS
D/A
55
45
A/D
BPF
DEMODULATION
CNR
(DOC)
MODULATION
OUTLINE
EMPHASIS
D/A
51
NTSC
PAL
73
H-PLL
V-PLL
MEMORY
CONTROL
SYSTEM
CLOCK
PLL
VCXO
PLL
4fsc
24
IIC BUS
75
76
80
82-85
97-100
86-89
93-96
28
29
2M BIT MEMORY

AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
VIDEO MAIN SIGNAL PATH IN REC MODE

PS3901
LINE OUT (L) 1
LINE OUT (R) 2
GND (A) 3
AV3 A IN (L) 4
AV3 A IN (R) 5
GND (A) 6
AV1 A IN (L) 7
AV1 A IN (R) 8
GND (A) 9
AV2 A IN (L) 10
AV2 A IN (R) 11
GND (A) 12
INSEL A 13
INSEL B 14
RGB 15
AV3 S-Y IN 16
GND (V) 17
AV3 S-C IN 18
GND (V) 19
V IN 20
TO VIDEO SECTION IN MAIN PP3401 (C-13)

PS3902
GND (V) 1
AV2 OUT 2
TV 3
AV2 PB (H) 4
AV1 PB (H) 5
AV3 S IN (L) 6
I/O -5V 7
GND 8
I/O 5V 9
GND 10
UNREG 14V 11
GND (V OUT) 12
C OUT 13
GND (S OUT) 14
Y+C OUT 15
GND (S OUT) 16
Y OUT 17
GND 18
AV4 V IN 19
GND 20
TO VIDEO SECTION IN MAIN PP3402 (D-13)

PS3903
GND 1
AV1 CTL 2
GND 3
AV2 CTL 4
WIDE (H) 5
TO VIDEO SECTION IN MAIN PP3403 (D-13)

IC3901 MC14053BF (AV1 OUT)
IC3902 MC14053BF (AV2 OUT)
IC3903 MC14051BF (VIDEO IN)
Q3902 2SB1218 (AMP)
Q3903 2SB1819 (AMP)
Q3904 2SB1819 (AMP)
Q3905 2SB1218 (AMP)
Q3907 2SD1819 (AMP)
Q3908 2SD602 (REG.)
Q3909 XN4402 (WIDE(L):ON)
Q3901 2SD1328 (SWITCHING)
QR3901 UN5211 (INV.)
QR3902 UN5211 (INV.)
QR3903 XN1211
S3901 VSS0513
S-VIDEO OUT ↔ NORMAL
JK3901 VJS1470 AV1 TV
JK3902 VJS1470 AV2 (DECODER)
JK3903
JK3905
D3901 MA165TA5VT
D3902 MA165TA5VT
D3903 MA165TA5VT
D3904 MA165TA5VT

JK3901 (AV1) JK3902 (AV2)

21	GND
20	VIDEO IN
19	VIDEO OUT
18	GND
17	GND
16	BLANKING
15	RED
14	GND
13	GND
12	-/DATA
11	GREEN
10	-/CONTROL (FOLLOW TV)
9	GND
8	PB +12V (D LINK)
7	BLUE
6	AUDIO IN CH1 (L)
5	GND
4	GND (A)
3	AUDIO OUT CH1 (L)
2	AUDIO IN CH2 (R)
1	AUDIO OUT CH2 (R)

TC4051B
TC4052B
TC4053B

CONTROL INPUTS				"ON" CHANNEL		
INHIBIT	C△	B	A	TC4051B	TC4052B	TC4053B
L	L	L	L	0	0X, 0Y	0X, 0Y, 0Z
L	L	L	H	1	1X, 1Y	1X, 0Y, 0Z
L	L	H	L	2	2X, 2Y	0X, 1Y, 0Z
L	L	H	H	3	3X, 3Y	1X, 1Y, 0Z
L	H	L	L	4	---	0X, 0Y, 1Z
L	H	L	H	5	---	1X, 0Y, 1Z
L	H	H	L	6	---	0X, 1Y, 1Z
L	H	H	H	7	---	1X, 1Y, 1Z
H	*	*	*	NONE	NONE	NONE

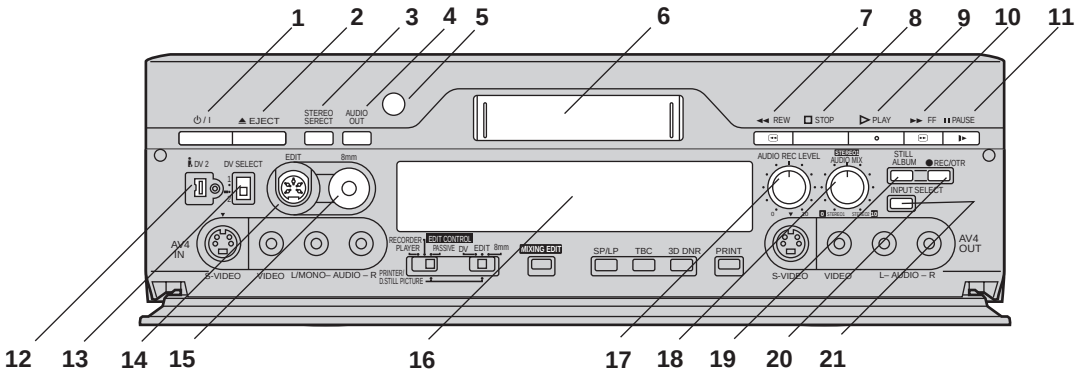
* : Don't Care △Except TC4052B

NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS PLAYBACK MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS < > ON THIS DIAGRAM IS RECORD MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz

NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

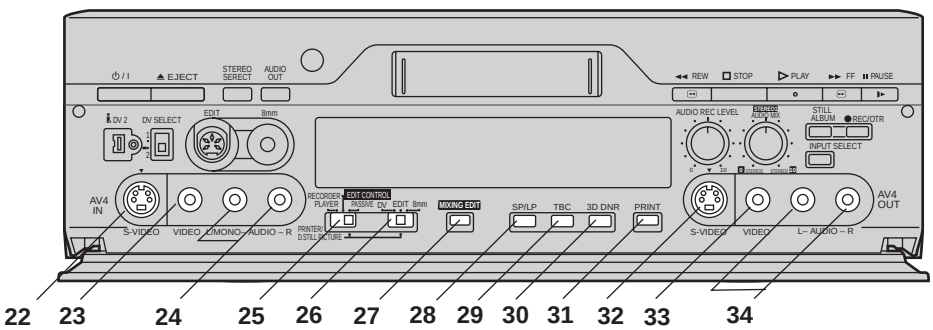
Controls and Connection Sockets

This section gives a detailed explanation of the function of each button, switch and connection socket.



Front

1 **VCR-ON/OFF** button (⏻/I)
2 **EJECT** button (⏏)
3 **STEREO SELECT** button
4 **AUDIO OUT** button
5 **Infra-red receiver window**
6 **Cassette compartment**
7 **Rewind** button (◀◀)
8 **STOP** button (□)
9 **PLAY** button (▷)
10 **Fast Forward** button (▶▶)
11 **PAUSE/SLOW** button (❚❚/▶)
12 **DV Input/Output** socket [**DV2** (ⓘ)]
13 **DV SELECT** (**DV1/DV2**) switch
14 **EDIT** socket
15 **8mm** socket
16 **Display**
17 **AUDIO REC LEVEL** knob
18 **AUDIO MIX** knob
19 **STILL ALBUM** button
20 **REC/OTR** button (●)
21 **INPUT SELECT** button
22 **S-Video Input** socket [**S-VIDEO IN (AV4)**]
23 **Video Input** socket [**VIDEO IN (AV4)**]
24 **Audio Input** socket [**AUDIO IN (AV4)**]
25 **Edit Mode** switch
26 **Edit Terminal** switch
27 **MIXING EDIT** button
28 **SP/LP** button
29 **Time Base Corrector** button (**TBC**)
30 **3 Dimentional Digital Noise Reduction** button (**3D DNR**)
31 **PRINT** button
32 **S-Video Output** socket [**S-VIDEO OUT (AV4)**]
33 **Video Output** socket [**VIDEO OUT (AV4)**]
34 **Audio Output** socket [**AUDIO OUT (AV4)**]



Front (Explanation)

VCR-ON/OFF button (⏻/I)

Press to switch the VCR from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.

Edit Terminal switch

By connecting a video movie camera or VCR with an EDIT socket via an Edit cable, various kinds of editing functions can be performed more quickly and efficiently between two VCRs or between a VCR and a video movie camera.

DV Input/Output socket [**DV1/DV2**(i.LINK)]

To connect the DV cable to digital video equipment with iEEE 1394-1995.

"i.LINK" is the logo marked on products conforming with the "i.LINK" specifications. For further details on the DV terminal.

Edit Mode switch

PLAYER: When this VCR is used as the playback VCR during editing operations.

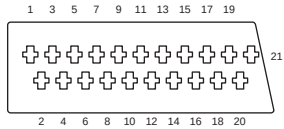
RECORDER: When this VCR is used as the recording VCR during editing operations.
- Normally set at this position.

PASSIVE: When operating this VCR using another VCR or an editing controller.

AV1 21-pin Scart socket [**AV1 (TV)**]

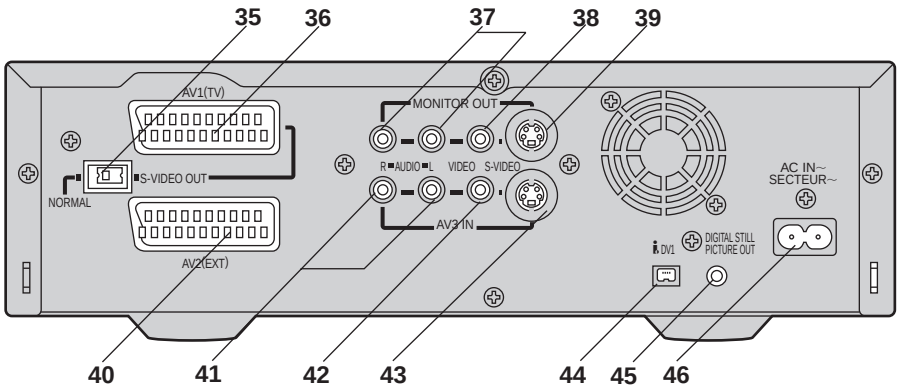
This 21-pin scart terminal carries input and output signals for both picture and sound. TV sets equipped with a similar socket can be connected here.

The scart terminal is also called "Peritel", "Euro Connector" or "Euro AV".



	NORMAL (AV1/AV2)	S-VIDEO (AV1)
1	AUDIO OUTPUT CH2 (R)	AUDIO OUTPUT CH2 (R)
2	AUDIO INPUT CH2 (R)	AUDIO INPUT CH2 (R)
3	AUDIO OUTPUT CH1 (L)	AUDIO OUTPUT CH1 (L)
4	AUDIO GND	AUDIO GND
5	BLUE GND	No connection
6	AUDIO INPUT CH1 (L)	AUDIO INPUT CH1 (L)
7	BLUE	No connection
8	SWITCHING VOLTAGE	SWITCHING VOLTAGE
9	GREEN GND	No connection
10	Connection (Only when NV-DV2000 is off)	Connection
11	GREEN	No connection
12	No connection	No connection
13	RED GND	C OUT GND
14	BLANKING GND	No connection
15	RED	C OUT
16	BLANKING	No connection
17	VIDEO OUTPUT GND	Y OUT GND
18	VIDEO INPUT GND	VIDEO INPUT GND
19	VIDEO OUTPUT	Y OUT
20	VIDEO INPUT	VIDEO INPUT
21	GND	GND

Caution: RGB reservation for only E/E operation when connecting the Pay TV decoder.



Rear

35 **NORMAL/S-VIDEO OUT** switch for AV1 only

36 **AV1 21-pin Scart** socket [**AV1 (TV)**]

37 **Audio Monitor Output** sockets [**AUDIO OUT (AV3)**]

38 **Video Monitor Output** socket [**VIDEO OUT (AV3)**]

39 **S-Video Output** socket (**S-VIDEO OUT**)

40 **AV2 21-pin Scart** socket [**AV2 (EXT)**]

41 **Audio Input** sockets [**AUDIO IN (AV3)**]

42 **Video Input** socket [**VIDEO IN (AV3)**]

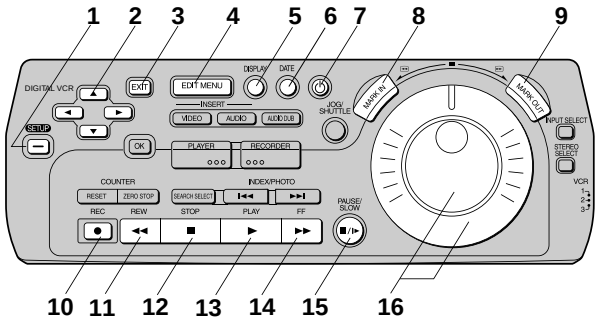
43 **S-Video Input** socket [**S-VIDEO IN (AV3)**]

44 **DV Input/Output** socket [**DV1**(i.LINK)]

45 **DIGITAL STILL PICTURE OUT** socket

46 **AC Input** socket (**AC IN**)

Editing Controller



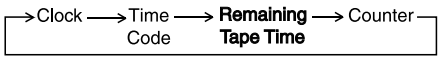
1 **SET UP** button
To make the **SET UP** screen appear on the TV screen. When the **SET UP** screen is displayed, use this button to return to the previous screen.

2 **CURSOR** button (▲▼◀▶)
To make selections from the **SET UP** or **EDIT MENU** screen. (When the **SET UP** or **EDIT MENU** screen is displayed.)

3 **EXIT** button
To exit the **SET UP** or **EDIT MENU** screen.

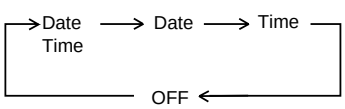
4 **EDIT MENU** button
To make the **EDIT MENU** screen appear on the TV screen, and to return to the previous screen. This button is also used to stop editing functions using the **EDIT MENU** screen.

5 **DISPLAY** button
To change the VCR display indication as follows:



Note:
The VCR display cannot be switched between the Time code display and the tape counter display while editing is in progress.

6 **DATE** button
When pictures are recorded using the NV-DV2000 or a Panasonic Digital Video Camera, the date and time of the recording are automatically recorded onto the tape's sub code track.
This button is used to select the information to be displayed on the On Screen Display.



7 **VCR-ON/OFF** button (⏻)

8 **MARK IN** button
To set edit start points for Programme Editing.

9 **MARK OUT** button
To set edit end points for Programme Editing.

10 **REC** button (●)
To start recording.

11 **Rewind** button (◀◀)

In the stop mode:	To rewind the tape.
In the playback mode:	To search backward for a scene.
In the rewind mode:	To view the video. "◁◁" is lit during rewind.

12 **STOP** button (■)
To stop playback or recording.

13 **PLAY** button (▶)
To start playback. "▷" is lit during playback.

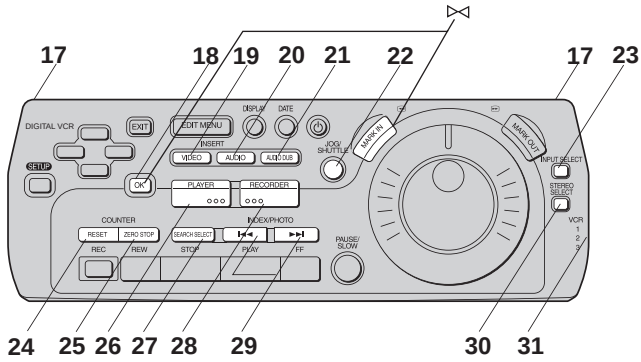
14 **Fast Forward** button (▶▶)

In the stop mode:	To fast forward the tape.
In the playback mode:	To search forward for a scene.
In the fast forward mode:	To view the video. "▷▷" is lit during fast forward.

15 **PAUSE/SLOW** button (❚❚/▸)
During playback:
- When pressed once: Still picture. "❚❚" is lit.
- When pressed for 2 seconds or more: Slow playback. "❚▷" is lit.

During recording: To pause recording.

16 **Jog Dial/Shuttle Ring**
Jog Dial (inner dial):
Operate after pressing **JOG/SHUTTLE** to switch to the Jog/shuttle mode.
To locate any desired field with utmost precision.
Shuttle Ring (outer ring):
Operate after pressing **JOG/SHUTTLE** to switch to the Jog/shuttle mode.
To adjust playback speed backward or forward.



17 **Infra-red Transmitter window**

18 **OK** button
To start Manual editing and to store the selection on the SET UP or EDIT MENU screen.

19 **VIDEO INSERT** button
For the Video Insert function and the AV Insert function.

20 **AUDIO INSERT** button
For the Audio Insert function and the AV Insert function.

21 **AUDIO DUB** button
For the Audio Dubbing function or the Audio Mixing function.

22 **JOG/SHUTTLE** button and lamp
To switch to the Jog/Shuttle mode. When the button is pressed, it lights and the VCR enters the Jog/Shuttle mode.
In the stop mode: Still picture (Jog/Shuttle mode).
During playback: Still picture (Jog/Shuttle mode).

23 **INPUT SELECT** button
To select the A1, A2, A3, A4 or DV IN (DV1 or DV2) external recording source.

24 **COUNTER RESET** button
To reset the tape counter (elapsed time) to "0:00.00".
- The tape counter is automatically reset to "0:00.00". when a video cassette is inserted.
- It is not possible to reset the Time code to "0h00m00s00f" using **COUNTER RESET.**

25 **COUNTER ZERO STOP** button
To use the zero stop function at the tape counter display.

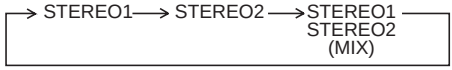
26 **PLAYER** button
To operate this VCR as the playback unit for editing.

27 **SEARCH SELECT** button
To search for a recorded programme using the index/photoshot index search.

28 **RECORDER** button
To operate this VCR as the recording unit for editing.

29 **INDEX/PHOTO** buttons
For the index/photoshot index search function.

30 **STEREO SELECT** button
To select the audio track (STEREO1 audio and/or STEREO2 audio) on a tape which was recorded in the 12bit audio mode. During playback, each time the button is pressed, the sound changes as follows:



- The audio track cannot be selected during the playback of a tape recorded in the 16bit audio mode.
- When **INPUT SELECT** is set to DV1 or DV2, the audio track can be selected by **STEREO SELECT** at any time: it does not have to be during playback.

31 **VCR1/2/3** switch
Set the switch on the side panel of the editing controller to the appropriate position when more than two or three Panasonic VCRs is being used.

VCR1:	Select this position on both the VCR and editing controller for normal use with one VCR.
VCR2:	Select this position when using two Panasonic VCRs.
VCR3:	Select this position when using three Panasonic VCRs.

⋈ **Child Lock** buttons
To set the child lock function when you keep pressing **OK** and **MARK IN** for more than five seconds.

CAUTION

THE ▨ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

HOT

P1101
F1101 VSF0243C16 or VSF0244C16
C1120 ECQU2A823MVA
L1121 ELF18D222F
D1140 S1WBA80-4062
C1140 ECEC2GG680B
CHASSIS
LB1121 VLP0196-T
LB1120 VLP0196-T
C1123 ECKMNA101MBV
C1122 ECKMNA101MBV
R1200 ERDS1VJ100T
D1200 ERA22-06V5
C1114 VCEA1VJC470B
R1158 ERG1SJ223E
R1155 ERG1SJ223E
C1151 ECKW2H103PU8
R1154 ERDS2TJ225T
R1184 220K
R1153 ERDS2TJ225T
R1185 220K
D1150 AP01CV2
R1157 ERDS2TJ225T
R1156 ERDS2TJ225T
T1150 ETE28K128AZ
NC P1 P2 PT V1 NC
S9 S8 S7 S3 S4 S6 S1 S2 S5
LB1124 VLP0196-T
C1124 ECKMNA102MEV
Q1200 PC123ZY2
C1201 ECQB1H822JF4 or ECQB1H822JM4
R1201 2200
D1183 MA165TA5VT
R1203 560
R1202 270
C1242 ECKR2H101KB5 or VCK0266K101T
D1240 31DQ10-FC9
C1240 VCEA1AJH182B
IP1280 VSF0015A10T
D1280 11EQS09TA1
C1283 ECKR2H101KB5 or VCK0266K101T
C1280 VCEA1AJH471B
C1281 0.01
C1282 0.01
C1272 ECKR2H101KB5 or VCK0266K101T
D1270 ERA22-04V5
C1270 VCEA1HJH101B
C1290 ECKR2H101KB5 or VCK0266K101T
D1290 ERA22-04V5
C1230 VCEA1HJH101B
C1252 ECKR2H101KB5 or VCK0266K101T
D1251 RL2ZPLF-C4
C1250 VCEA1EJH821B
D1260 31DQ10-FC9
C1262 ECKR2H221KB5 or VCK0266K221T
C1260 VCEA1AJH182B
CHASSIS
GND (IF)
GND(MOTOR) (IF)
HEATER(-) (IF)
HEATER(+) (IF)
UNREG 4V (IF)
UNREG 14V (IF)
UNREG 6V (IF)
UNREG -29V (IF)
UNREG -12V (IF)
PP1101
1 GND
2 SMOOTH 14V
3 ——
4 SMOOTH 6V
5 SMOOTH 4V
6 SMOOTH -12V
7 SMOOTH -29V
8 HEATER(+)
9 HEATER(-)
10 GND
11 UNREG -12V
12 UNREG -29V
13 UNREG 6V
14 UNREG 14V
15 UNREG 4V
16 HEATER(+)
17 HEATER(-)
TO SUB POWER PS1101
IC1200 TL431CLP-Z or UPC1093J-T
C A R
4.5 0 2.4
R1207 2700
R1204 2700
C1202 ECQV1H104JM2 or ECQV1H104B46
R1205 9100
R1206 2400
R1180 10K
D1180 MA4220N-HTA
IC1150 STRM6559LF or STRM6559LF14
18.1
START O.V.P REG. LATCH T.S.D TRIGER O.S.C O.C.P DRIVE
R4 R1 C4 C1 R2 C2 C3
0.1
283 0 0 0 1.0
D1182 MA7300B-TR
C1152 ECCZ3A101KGE
LB1150 VLP0196-T
R1150 ERX1SJR82E
R1151 150
R1152 390
R1181 100
D1181 MA700-TA
R1183 1500
R1182 120K
C1180 VCEA0JJC331B
C1181 1000P
C1182 100P

SUB POWER C. B. A. (VEP01868A)

C1271 0.01 L1270 ELESN101KA or VLQEL05T101K
C1231 0.01 L1230 ELESN101KA or VLQEL05T101K
C1251 VCEA1EJH821B L1250 VLQ0655K220T or VLQ0775K220T
C1261 VCEA1AJH122B L1260 VLQ0655K220T or VLQ0775K220T
C1241 VCEA1AJH122B L1240 VLQ0655K220T or VLQ0775K220T
D1241 RL2ZPLF-C4
PS1101
1 GND
2 SMOOTH 14V
3 ——
4 SMOOTH 6V
5 SMOOTH 4V
6 SMOOTH -12V
7 SMOOTH -29V
8 HEATER(+)
9 HEATER(-)
10 GND
11 UNREG -12V
12 UNREG -29V
13 UNREG 6V
14 UNREG 14V
15 UNREG 4V
16 HEATER(+)
17 HEATER(-)
TO POWER SECTION IN MAIN PP1101

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE1: WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE. . . . . ⏚
SECONDARY SIDE. . . ⫽

NOTE2: THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 220V.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

Ⓥ : TO VIDEO SECTION IN MAIN
(IF) : TO RF I/F SECTION IN MAIN
Ⓐ : TO AUDIO SECTION IN MAIN

E D C B A

1 2 3 4 5 6 7 8 9

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
VIDEO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE

TO DIGITAL (VIDEO 2 SECTION) FP3202 (E-18)

TO DIGITAL (SYSTEM CONTROL & SERVO SECTION) FP6002 (C-2)

FAN MOTOR

DV JACK C.B.A. (VEP07A04A)

TO DIGITAL (DIGITAL I/F SECTION) P3701 (E-9)

Q7602 2SD1996 (DRIVE)

Q7601 2SD1996 (DRIVE)

(5V REG.) Q1001 2SD1996

(5V REG.) Q1002 2SD1996

(5V REG.)

Q1003 2SD1996

IC1002 TL431CLP

(3V REG.) Q1004 2SD1996

Q1005 2SD1996(5V REG.)

Q1007 2SD1996 (3V REG.)

Q1008 2SD1996 (3V REG.)

IC1003 TL431CLP

Q1010 2SD601A (REG.)

Q1011 2SD601A (POWER CONV.)

Q1012 2SB956 (-5V REG.)

Q1013 2SD602A (HEATER REG.)

Q1015 2SD1996 (5V REG.)

QR1004 UN5213 (INV.)

QR1005 UN5113 (P OFF Ⓛ:ON)

QR1006 UN5213(INV.)

QR1003 UN5111 (SLEEP Ⓗ:ON)

QR6203 UN5213 (SWITCHING)

QR6202 UN5213 (SWITCHING)

QR1007 UN5213 (INV.)

QR1001 UN5213 (P OFF Ⓛ:ON)

IC1005 RN5RG22AA

Q1009 2SB956 (REG.)

IC1001 PQ20VB2

QR4001 UN5113 (MUTE)

IC1004 TL431CLP

Q1014 2SD1996(REG.)

IC1006 TL431CLP

Q1016 2SD1996 (REG.)

Q1501 2SD1273 (VOLTAGE CONT.)

IC1501 NJM2904M

Ⓟ : TO POWER SECTION IN MAIN
Ⓥ : TO VIDEO SECTION IN MAIN
Ⓐ : TO AUDIO SECTION IN MAIN

NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS PLAYBACK MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS < > ON THIS DIAGRAM IS RECORD MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz

IMPORTANT SAFETY NOTICE:
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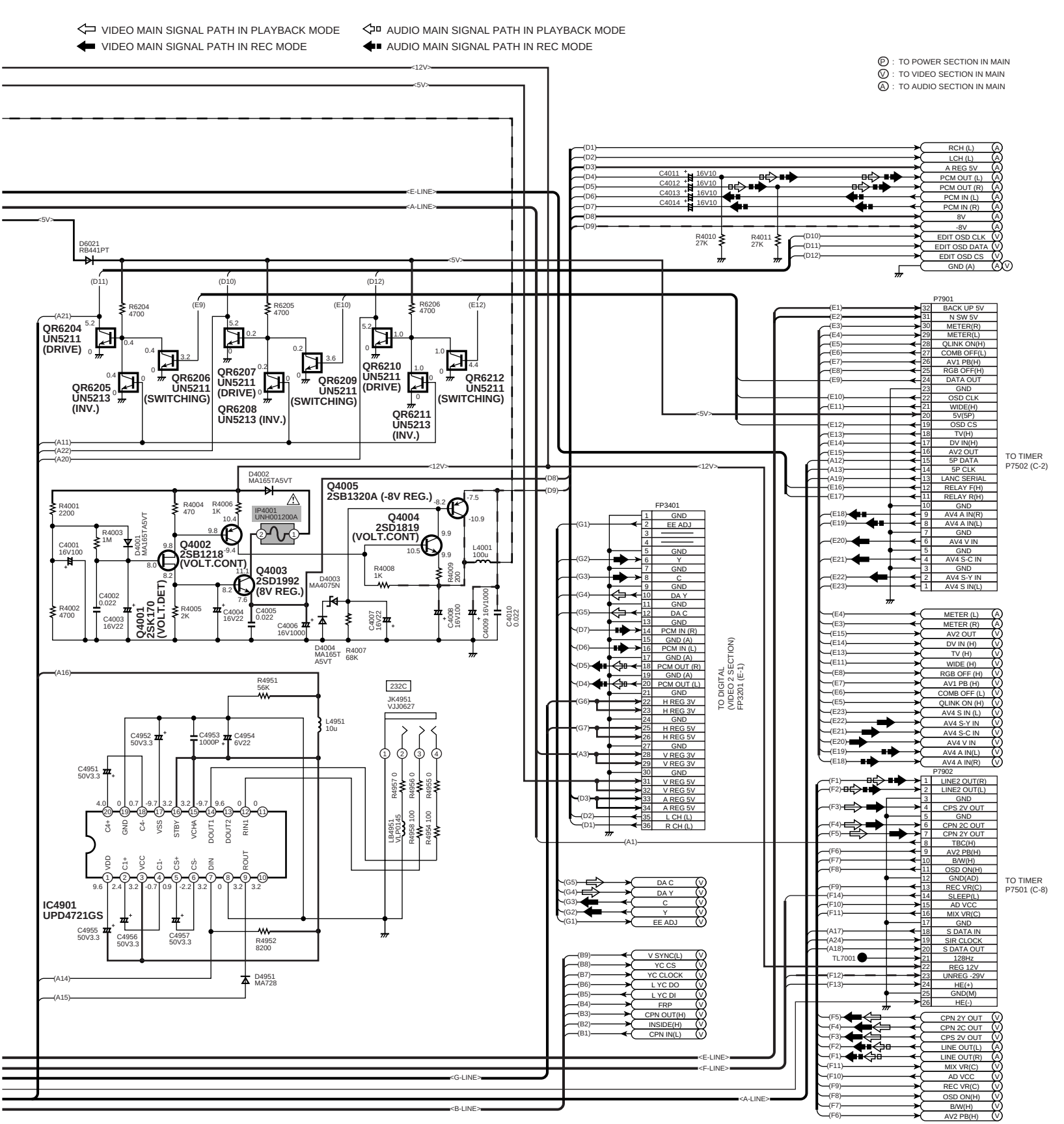
NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.



NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS < > ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
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WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

Precautions for maintenance of timer/main C.B.A.

Disconnection of the flexible cable between P7502 and P7901 for maintenance or check of the timer/main C.B.A. without applying any voltage will cause the loss of the back up +B of the timer microcomputer. Be sure to apply a voltage of +4.5 V to the connector of P7503 before disconnecting the flexible cable.
If the back up +B is lost, the CH setting and data of the timer will be initialized (reset).

DP7501 VSL0539 - B

EDIT MODE2
S7502 VSS0405

IC7501 MN1874823YA (TIMER MICON)

IC7504 RN5VS23AA

IR4851 RPM6937-V11

IC7502 RN5VS43AA

IC7503 BA6138 (AUDIO METER)

Q7502 2SD1819A (SIR CLK)

Q7501 2SD1819A (S DATA)

QR7502 UN5213 (SIR CLK)

QR7501 UN5213 (S DATA)

TO RF I/F SECTION IN MAIN P7901 (D-13)

TO RF I/F SECTION IN MAIN P7902 (B-13)

Back up battery terminal (1.5 V x 3)

NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz

NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
VIDEO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE

IF YC REG 5V
IF I/O 5V
IF I/O -5V
IF REG 5V
IF REG 12V
IF INSEL A
IF INSEL B
IF B/W (H)
IF DV IN (H)
IF N SW 3V
IF CPN OUT(H)
IF COMB OFF(L)
IF GND (V)
IF GND (I/O)

K3601

IC3602
AN3916-LF
LPF
B.G REF
KEYED/PEAK DET.
GCA
AMP
H SYNC SEP.
SYNC CLAMP
DI CLAMP
<A-LINE>

Q3602
2SD1819
(AMP)

Q3609
2SB1218
(AMP)

Q3608
2SB1218
(AMP)

Q3607
2SD1819
(AMP)

IC3604
NJM2904M
(Y/C GCA ADJ)

IC3605
MC14052BF

QR3606
UN5213
(CPN OUT
Ⓗ:ON)

IC3607
MC14053BF

Q3623
2SB1218(AMP)

QR3605
UN5212
(CPNⓁ:OFF)

QR3603
UN521L
(VIDEO
EEⒽ:ON)

QR3604
UN521L
(DV INⒽ:ON)

IC3612
MC14052BF

QR3601 UN5111
(VIDEO EEⓁ:ON)

D3601
MA165TA5VT

D3602
RB441P

IC3603
MC14053BF

Q3601
2SD1819(AMP)

Q3603
2SD1819
(AMP)

Q3604
2SD1819
(AMP)

Q3605
2SD1819
(AMP)

Q3606
2SD1819
(AMP)

IC3601
MC14053BF

ANALOG Y/C

PP3502
Y BLK 16
HSS 15
YC REG 5V 14
DNR Y IN 13
GND(D) 12
DNR C IN 11
GND(D) 10
DNR Y OUT 9
GND(D) 8
DNR C OUT 7
GND(D) 6
H BLK 5
IIC CLK 4
IIC DATA 3
V PULSE 2
C SYNC 1
TO ANALOG Y/C PS30002(C-1)

PP3501
CPS Y IN 15
GND 14
CPN Y IN 13
CPN(L) 12
CPN C IN 11
GND 10
I/O 5V 9
FSC 8
I/O -5V 7
Y SEP OUT 6
GND 5
C SEP OUT 4
YC REG 5V 3
COMB OFF(L) 2
GND 1
TO ANALOG Y/C PS30001(E-1)

IF QLINK ON(H)
IF Y
IF C
IF INSIDE(H)
IF DA Y
IF EE ADJ
IF CPN IN (L)
IF DA C
IF EDIT OSD CLK
IF EDIT OSD DATA
IF EDIT OSD CS

IC3606
MB90089WVAS
Analog SW
Serial input control
Output Control
Dot clock generator
Video Signal
VRAM
CGROM
Display Memory Control
4Fsc clock generator
Signal generator
H/V SEP.

X3601
VSX1009

Q3628
2SD1819
(AMP)

IC3613
MM1093PFB
4FSC VCO
APC2
FSO VCXO

X3602
VSX1030

IC3608
MM1108
Vertical Sync Sep.
Sync Sep.
VCO
Phase comparator

Q3610
2SC3930
(AMP)

Q3611
2SB1218
(AMP)

Q3620
2SD1819
(LIMITER)

Q3622
2SD1819
(AMP)

Q3617
2SB1218
(AMP)

Q3612
2SD1819 (AMP)

QR3602
UN5213
(INSIDEⒽ:ON)

Q3615
2SB1218
(AMP)

Q3616
2SB1218
(AMP)

Q3618
2SD1819
(AMP)

Q3619
2SB1218
(AMP)

Q3613
2SD1819
(AMP)

Q3614
2SB1218
(AMP)

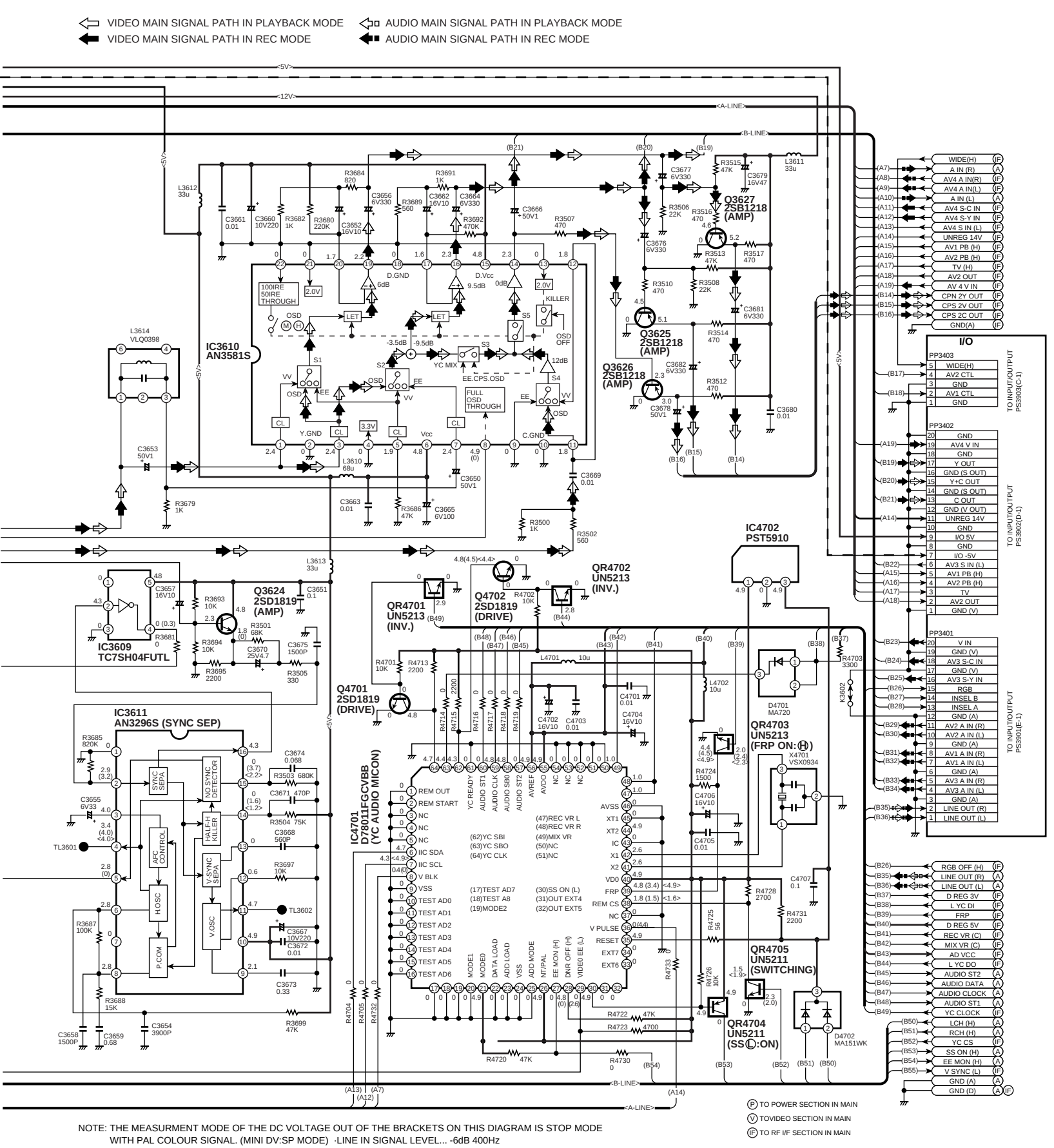
Q3621
2SD1819
(AMP)

NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS PLAYBACK MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS < > ON THIS DIAGRAM IS RECORD MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz

NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Ⓟ TO POWER SECTION IN MAIN
Ⓥ TOVIDEO SECTION IN MAIN
IF TO RF I/F SECTION IN MAIN

E D C B A
1 2 3 4 5 6 7 8 9



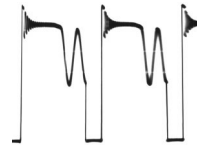
NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS PLAYBACK MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS < > ON THIS DIAGRAM IS RECORD MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz

NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Q1200- 2 STOP
250mVp-p (5usec. div.)

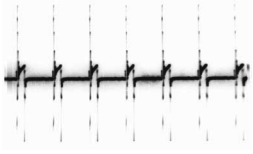
Q1200- 3,4 STOP
2.2Vp-p (5usec. div.)

T1105- 3 STOP
5.0Vp-p (2msec. div.)

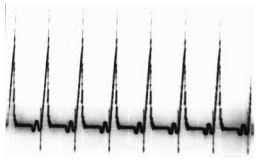


T1105- 4 STOP
400Vp-p (5usec. div.)
IC1150- 1 STOP
400Vp-p (5usec. div.)

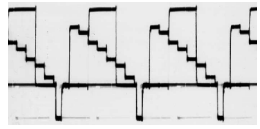
T1105- 7 STOP
140Vp-p (5usec. div.)



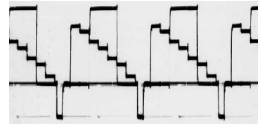
IC1150- 2 STOP
4.5Vp-p (5usec. div.)



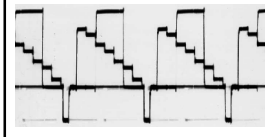
IC1150- 4 STOP
0.6Vp-p (10usec. div.)



IC3601- 12,13,14 PLAY/REC
1.1Vp-p (20usec. div.)
IC3603-12,14 PLAY/REC
1.0Vp-p (20usec. div.)

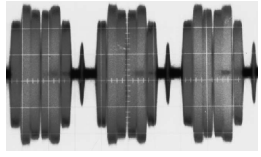


IC3606- 1 PLAY/REC
2.5Vp-p (20usec. div.)
IC3606- 27 PLAY
2.25Vp-p (20usec. div.)

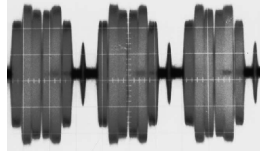


IC3610- 3 PLAY/REC
1.2Vp-p (20usec. div.)
IC3610- 19 PLAY/REC
2.0Vp-p (20usec. div.)

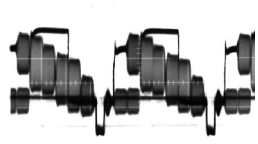
IC3601- 3,4,5 REC
0.65Vp-p (20usec. div.)
IC3603- 4 PLAY/REC
0.5Vp-p (20usec. div.)



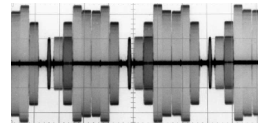
IC3603- 5 PLAY
0.5Vp-p (20usec. div.)
IC3606- 2,26 PLAY/REC
1.3Vp-p (20usec. div.)



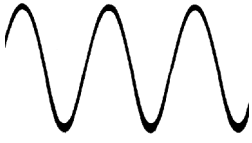
IC3610- 11 PLAY/REC
250mVp-p (20usec. div.)
IC3610- 14 PLAY/REC
1.4Vp-p (20usec. div.)



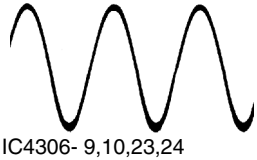
IC3610- 16 PLAY/REC
2.0Vp-p (20usec. div.)



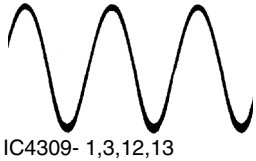
IC3601- 3,5 PLAY
0.6Vp-p (20usec. div.)
IC3601- 4 PLAY
0.45Vp-p (20usec. div.)



IC4302- 1,7 PLAY/REC
0.5Vp-p (0.5msec. div.)
IC4306- 7,26 PLAY/REC
0.5Vp-p (0.5msec. div.)

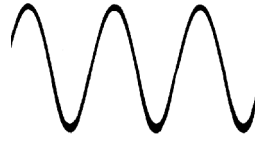


IC4306- 9,10,23,24
PLAY/REC
200mVp-p (0.5msec. div.)
IC4306- 11,21 PLAY/REC
140mVp-p (0.5msec. div.)

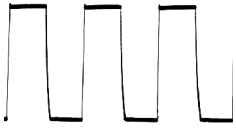


IC4309- 1,3,12,13
PLAY/REC
140mVp-p (0.5msec. div.)
IC4311- 1,7 PLAY/REC
0.6Vp-p (0.5msec. div.)

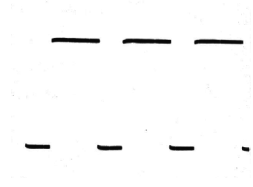
IC4311- 3,5 PLAY/REC
140mVp-p (0.5msec. div.)
IC4314- 2,4,5,11,13,15
PLAY/REC
0.6Vp-p (0.5msec. div.)



IC4315- 1,2,3,5,7
PLAY/REC
0.65Vp-p (0.5msec. div.)

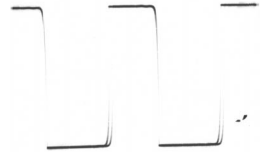


IC6001- 54 PLAY/REC
3.0Vp-p (0.5msec. div.)

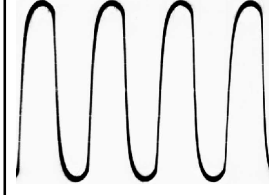


IC6001- 55 PLAY/REC
3.0Vp-p (0.2msec. div.)

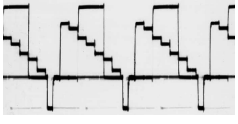
IC6001- 92 PLAY/REC
3.0Vp-p (0.5usec. div.)



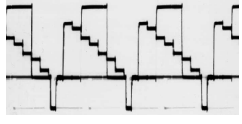
IC6001- 93 PLAY/REC
3.0Vp-p (0.5usec. div.)



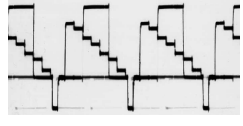
IC2503- 3 PLAY/REC
1.4Vp-p (0.5msec. div.)



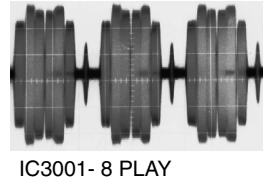
IC3001- 3 PLAY/REC
1.1Vp-p (20usec. div.)
IC3001- 157 PLAY/REC
1.5Vp-p (20usec. div.)



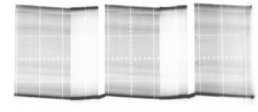
IC3004- 23 PLAY
1.2Vp-p (20usec. div.)
IC3004- 29,30 PLAY
0.5Vp-p (20usec. div.)



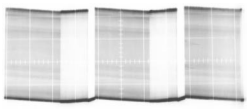
IC3004- 35 PLAY
1.0Vp-p (20usec. div.)



IC3001- 8 PLAY
0.4Vp-p (20usec. div.)
IC3004- 46 PLAY/REC
0.65Vp-p (20usec. div.)



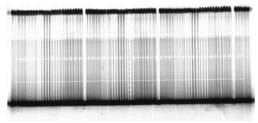
IC3001-
68,69,70,71,72,73,74,75
PLAY
2.0Vp-p (5msec. div.)



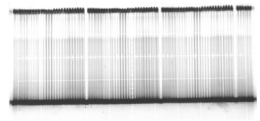
IC3002- 43 PLAY/REC
2.25Vp-p (5msec. div.)

IC3001- 165 PLAY/REC
0.6Vp-p (20usec. div.)
IC3004- 8 PLAY/REC
0.6Vp-p (20usec. div.)

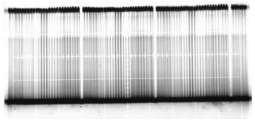
IC3001-
68,69,70,72,73,74,75 REC
2.0Vp-p (20usec. div.)



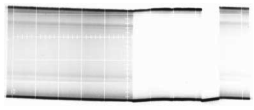
IC3002- 30,32,33,35
PLAY/REC
2.0Vp-p (1msec. div.)



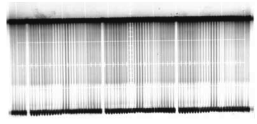
IC3002- 41 PLAY/REC
2.0Vp-p (5msec. div.)
IC3002- 91,93,94,96
PLAY/REC
2.0Vp-p (1msec. div.)



IC3003- 4,5,6,7,9,10,11,12
PLAY/REC
2.0Vp-p (1msec. div.)

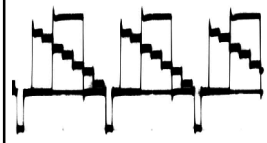


IC3002- 44,46,80,82,83,85
PLAY/REC
2.0Vp-p (2msec. div.)

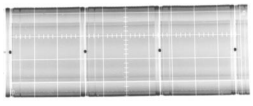


IC3003- 47,48,49,50
PLAY/REC
2.0Vp-p (1msec. div.)

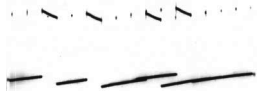
IC3004- 23 REC
1.2Vp-p (20usec. div.)
IC3004- 29,30 REC
0.5Vp-p (20usec. div.)



IC3004- 35 REC
1.0Vp-p (20usec. div.)

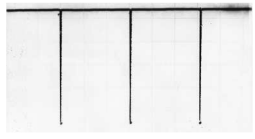


IC3201- 59 REC
2.0Vp-p (1msec. div.)

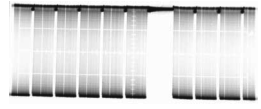


IC3201- 62,63 REC
4.0Vp-p (5msec. div.)
IC3201- 67 REC
3.0Vp-p (0.5msec. div.)

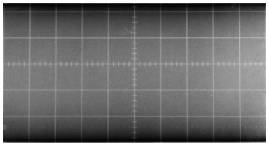
IC3201- 64 REC
3.5Vp-p (5msec. div.)



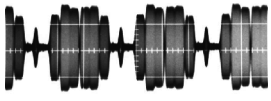
IC3201- 65,66 REC
3.0Vp-p (1msec. div.)



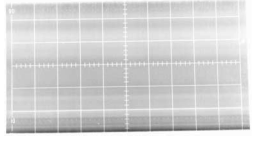
IC3201- 151,152,153,154
REC
2.0Vp-p (20usec. div.)



IC3203- 59 REC
350mVp-p (0.5msec. div.)

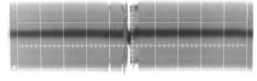


IC3001- 8 REC
0.45Vp-p (20usec. div.)

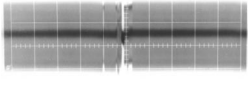


IC3201- 62,63,64,65,
66,67,68 PLAY
3.0Vp-p (20usec. div.)

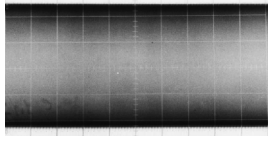
IC3201- 151,152,153,154
PLAY
2.0Vp-p (1msec. div.)



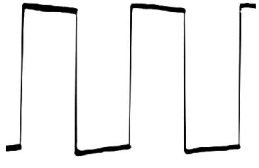
IC3203- 17,18 PLAY
150mVp-p (0.5msec. div.)
IC3203- 53 PLAY
0.4Vp-p (0.5msec. div.)



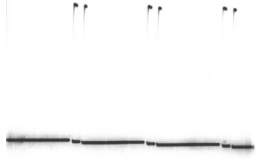
IC3203- 58,59,62 PLAY
250mVp-p (0.5msec. div.)



IC2001- 20 PLAY/REC
150mVp-p (0.1msec. div.)
IC2001- 21 PLAY/REC
0.6Vp-p (0.1msec. div.)

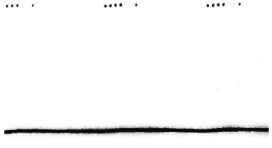


IC2001- 59 PLAY/REC
3.0Vp-p (0.5msec. div.)

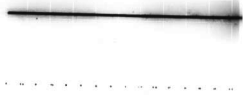


IC2001- 60 PLAY/REC
3.0Vp-p (2msec. div.)

IC2001- 70 PLAY
3.0Vp-p (5msec. div.)

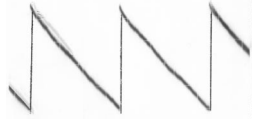


IC2001- 71 PLAY
3.0Vp-p (5msec. div.)



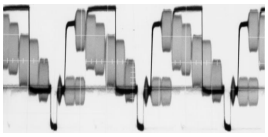
IC2001- 74 PLAY
3.0Vp-p (5msec. div.)

IC2001- 75 PLAY/REC
4.0Vp-p (10msec. div.)

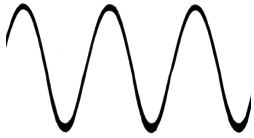


IC2001- 70 REC
0.2Vp-p (5msec. div.)

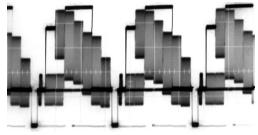
IC3701- 130,131,132 PLAY
2.0Vp-p (1msec. div.)
IC3701- 130,131,132,133
REC
2.0Vp-p (0.5msec. div.)



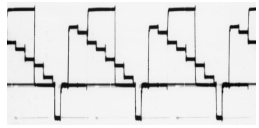
IC3901- 1,15 PLAY
1.0Vp-p (20usec. div.)
IC3902- 1,15 PLAY
1.0Vp-p (20usec. div.)



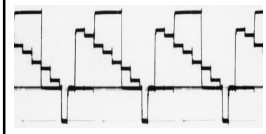
IC3901- 3,4,14 PLAY/REC
0.6Vp-p (0.5msec. div.)
IC3902- 3,4,14 PLAY/REC
0.6Vp-p (0.5msec. div.)



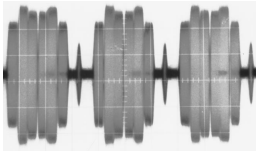
IC3901- 1,15 REC
1.0Vp-p (20usec. div.)
IC3902- 1,15 REC
1.0Vp-p (20usec. div.)



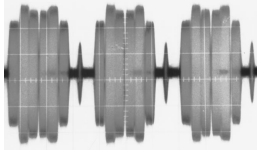
IC30001- 14 REC
1.0Vp-p (20usec. div.)
IC30002- 25 REC
1.4Vp-p (20usec. div.)



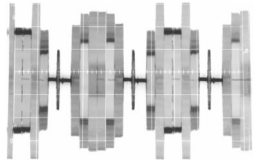
IC30006- 37,40,55 PLAY
1.75Vp-p (20usec. div.)



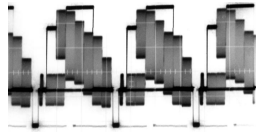
IC30001- 3 REC
170mVp-p (20usec. div.)
IC30001- 15 REC
0.5Vp-p (20usec. div.)



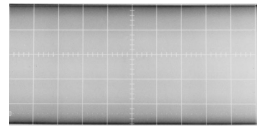
IC30002- 23 REC
0.5Vp-p (20usec. div.)
IC30006- 45 PLAY
1.0Vp-p (20usec. div.)



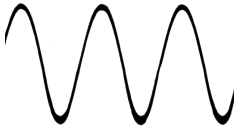
IC30006- 51 PLAY/REC
0.7Vp-p (20usec. div.)



IC30002- 3 REC
1.5Vp-p (20usec. div.)

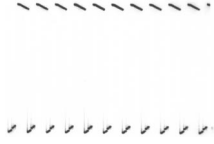


IC7501- 5 STOP
1.1Vp-p (20usec. div.)
IC7501- 6 STOP
0.6Vp-p (20usec. div.)



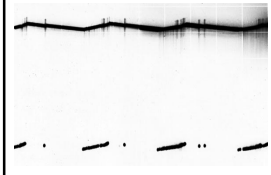
IC7501- 8 STOP
0.9Vp-p (10usec. div.)
IC7501- 9 STOP
4.0Vp-p (10usec. div.)

IC7501- 16,17,18,19,20,21,
22,23,24,25,26,27,28,29,
STOP
35.0Vp-p (5msec. div.)

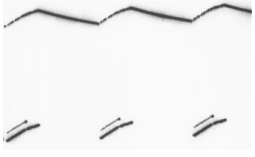


IC7501- 30,31,32,33,34,35,
36,37,38,39,40,41,42
STOP
35.0Vp-p (5msec. div.)

IC7501- 54,59 STOP
5.0Vp-p (5msec. div.)



IC7501- 60,61 STOP
5.0Vp-p (5msec. div.)



IC7501- 62,64 STOP
4.0Vp-p (5msec. div.)

For your safety please read the following text carefully

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS 1362.

Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstance should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol ⏚.

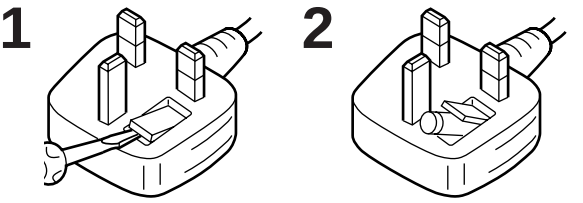
How to replace the Fuse

- There are two types of the AC Mains Lead assembly: **A** and **B** as shown below.

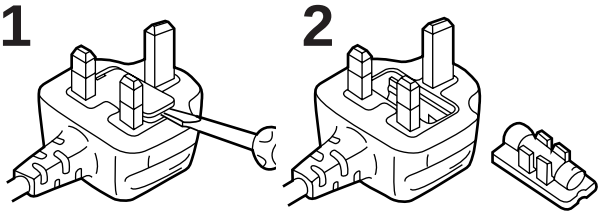
1 Open the fuse compartment with a screwdriver.

2 Replace the fuse and fuse cover.

TYPE A



TYPE B



[REF NO. 30000 SERIES]

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
VIDEO MAIN SIGNAL PATH IN REC MODE

Q2 2SB1218 (BUFFER)
Q3 2SC3930 (AMP)
Q4 2SC3930 (AMP)
Q1 2SB1218(AMP)
Q6 2SB1218 (AMP)
Q7 2SC3930 (BUFFER)
Q8 2SC3930 (AMP)
Q5 2SB1218(AMP)
Q11 2SB1218 (BUFFER)
Q10 2SC3930 (AMP)
Q12 2SB1218 (AMP)
Q9 2SB1218 (AMP)

IC2 TC9090AF (3D IC INTERFACE)
VSS4 VDD4 VREF1 Y OUT BIAS2 C OUT BIAS3 1/2VDD 21 VFIL CK IN VDD2 VSS2 VSS3 VDD3
VREFH VSS1 ADIN VDD1 VREFL BIASI P/S SDA (TVSW1) SCL (TVSW2) RESET (TVSW3) TEST1 (VENH0) TEST2 (VENH1) KILLER PLLSEL

QR1 UN5213 (COMP OFF:Ⓛ OFF)

IC7 PST9142NR (RESET)
GND SUB NC OUT IN

X2 VSX1110

IC1 MC14053BF (C/Y INPUT SELECT)
VSS VEE INH A B C

IC3 NJM2903M (AMP)
+V -V

IC4 TCHC4538AFEL (V PULSE MONO MULTI)
VDD VSS A B

D1 MA8027H
D2 MA142K
VR3 EVM7JSX30B54 H BLK

TL1 TL2 TL11 TL12 TL13

L1 VLQ0319K330
L6 VLQ0319K 330
L7 VLQ319K330
L8 VLQ319K330
L16 VLQ0319K 330
L17 VLP0319K 330

LB1 VLP0321A300T
LB2 VLP321A 300T
LB3 VLP0321A300T
LB4~6 VLP323A601T
LB7 VLP0321 A300T
LB8 VLP0321A300T

Q15 2SB1218 (AMP)
Q14 2SC3930 (BUFFER)
Q16 2SB1218 (AMP)
Q17 2SD1819 (AMP)
Q21 2SD1819 (AMP)
Q19 2SB 1218 (AMP)
Q18 2SC3930 (BUFFER)
Q20 2SB1218 (AMP)
Q22 2SB1218 (AMP)
Q23 2SB1218 (AMP)

IC8 MSM518221 (MEMORY)

IC6 TC90A11F (3D Y/C SEP)
(28) INV OUT
(29) INV IN
(30) VCXO GND
(51) C OUT
(52) AVDDDA
(53) VB1Y
(78) DVDD
(79) ATH
(80) RSTR
(1) WCK
(2) RSTW
(3) DVDD

PS2
C SYNC 1
V PULSE 2
IIC DATA 3
IIC CLK 4
H BLK 5
GND (D) 6
DNR C OUT 7
GND (D) 8
DNR Y OUT 9
GND (D) 10
DNR C IN 11
GND (D) 12
DNR Y IN 13
YC REG 5V 14
HSS 15
V BLK 16
TO VIDEO SECTION IN MAIN PP3502 (D-1)

PS1
GND 1
COMB OFF (L) 2
YC REG 5V 3
C SEP OUT 4
GND 5
Y SEP OUT 6
I/O -5V 7
FSC 8
I/O 5V 9
GND 10
CPN C IN 11
CPN (L) 12
CPN Y IN 13
GND 14
CPS V IN 15
TO VIDEO SECTION IN MAIN PP3501 (C-1)

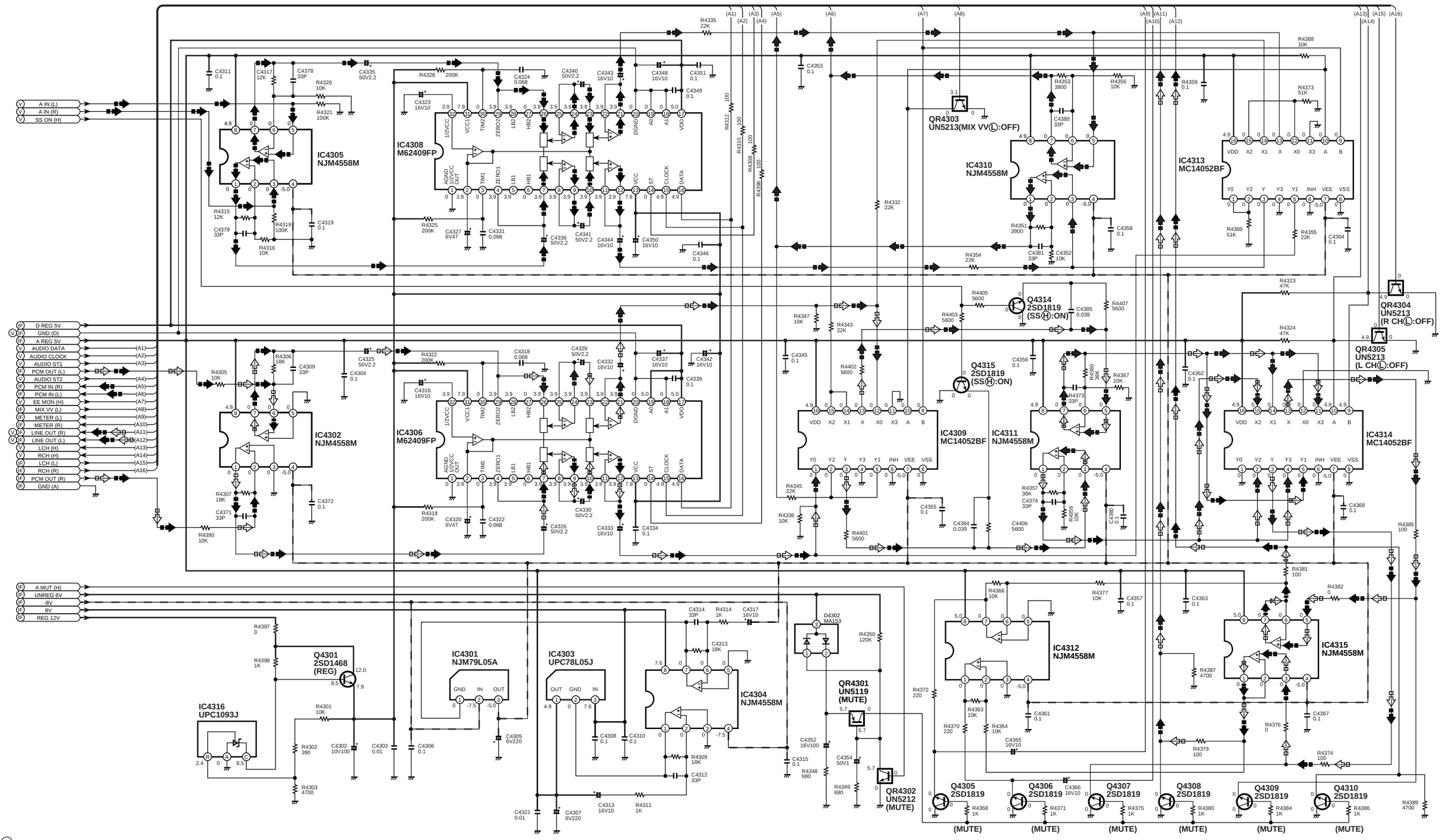
NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS < > ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz

NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

E D C B A
1 2 3 4 5 6 7 8 9

AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN REC MODE



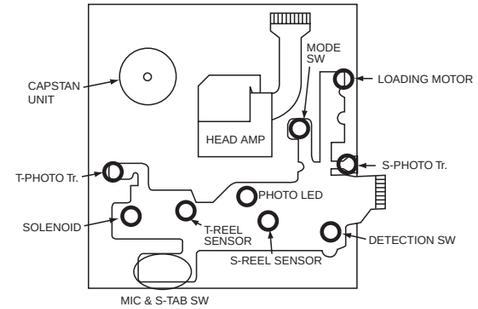
(P) : TO POWER SECTION IN MAIN

(V) : TO VIDEO SECTION IN MAIN

(IF) : TO RF I/F SECTION IN MAIN

NOTE: THE MEASURMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS STOP MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS PLAYBACK MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz
THE MEASURMENT MODE OF THE DC VOLTAGE IN THE BRACKETS < > ON THIS DIAGRAM IS RECORD MODE
WITH PAL COLOUR SIGNAL. (MINI DV:SP MODE) ·LINE IN SIGNAL LEVEL... -6dB 400Hz

NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.



[BOTTOM SIDE VIEW]

IC6001
(SYSCON SERVO MICON)

P.OFF(L) 51 → FP6002 1 / FP6201 40 → **QR1001, QR1006,1007** → P.OFF(L) (TO POWER CONTROL CIRCUIT)

S.CLK 81 → FP6002 4 / FP6201 33 → P7902 19 / P7501 8 → **Q7502, QR7502**

S.DATA OUT 82 → FP6002 14 / FP6201 23 → P7902 20 / P7501 7 → **Q7501, QR7501**

S.DATA IN 83 ← FP6002 15 / FP6201 22 ← P7902 18 / P7501 9

IC7501
(TIMER MICON)

59 S.CLK — KEY 1 2
60 S.DATA OUT — KEY 2 1
61 S.DATA IN — KEY 3 84

S4801-4805, S7503-7514

S1501 → P1502 3 / P6001 3 → 28 OPEN

S1502 → P1502 1 / P6001 1 → 29 CLOSE

(CASSETTE DOWN) → FP6003 2 → 30 DOWN

(SAFETY TAB) → FP6003 7 → 31 S.TAB

FP6003 20 → **Q6002** → **Q6001** → 32 SEN.LED

FP6003 30 → 21 S.PHOTO

FP6003 12 → 22 T.PHOTO

IC2501
(LOADING MOTOR DRIVE)

LOADING MOTOR (M) → FP6003 25,26 / FP6003 27,28 → CONTROL CIRCUIT (1, 4, 7, 5) → 33 M.LOAD, 34 M.UNLOAD

IC6002
(MOTOR DRIVE)

SLOT-IN MOTOR (M) → P1501 1 / P6002 1 → P1501 2 / P6002 2 → CONTROL CIRCUIT (24, 6, 15, 8) → 36 S.LOAD, 37 S.UNLOAD

IC6003
(T./S. REEL DRIVE)

FP6003 14 → 59 T.REEL

SW+3V → S.REEL SENSOR (3, 2, 4, 1) → FP6003 15 → 60 S.REEL

T.REEL SENSOR (3, 2, 4, 1)

IC2503
(CYL/CAP DRIVE)

CYL.ON(L) 15 → 5 YSTB
CYL.FG 54 → 60 YFG
CYL.ET 92 → 7 YEC
DRV CLK 96 → 55 YCLK
CAP T.LIM 16 → 46 CTL
CAP R/S/F 17 → 49 CRFS
CAP ET 93 → 48 CEC
59 YPG

YFGIN 2 ← P2501 3 ← FG
YPGIN 64 ← P2501 7 ← PG

YM3 15, YM1 17 → P2501 1,2,5,6,8,9 → M CYL

H1+ 39, CM3 30 → P2502 22,5 → M CAP

CFG IN 4 ← FG1 ← P2502 3 ← FG
CFG OUT 3 → FG2 → P2501 1

L (11.2um)
R (11.2um)

IC3201
(EDA)

HID 57 → 93 HIDI
CYL FG 13
CYL PG 32
TSR 56 → 97 TSR
ATF 48
DT0 103 | DT15 120

IC2001
(LSI MICON)

CPU CLK 73 → 73 CPU CLK
CPU DATA IN 75 → 74 CPU DATA OUT
CPU DATA OUT 74 → 75 CPU DATA IN
HID 57
DT15 139 | DT0 154

IC3203
(EQ IC)

9 — 2

IC5001
(H.AMP)

57 — P.B.SIGNAL FROM CYLINDER

IC2502

CAP FG 55 → 4 → 2, 1

IC2504
(FG AMP)

7 → 6
1 → 2

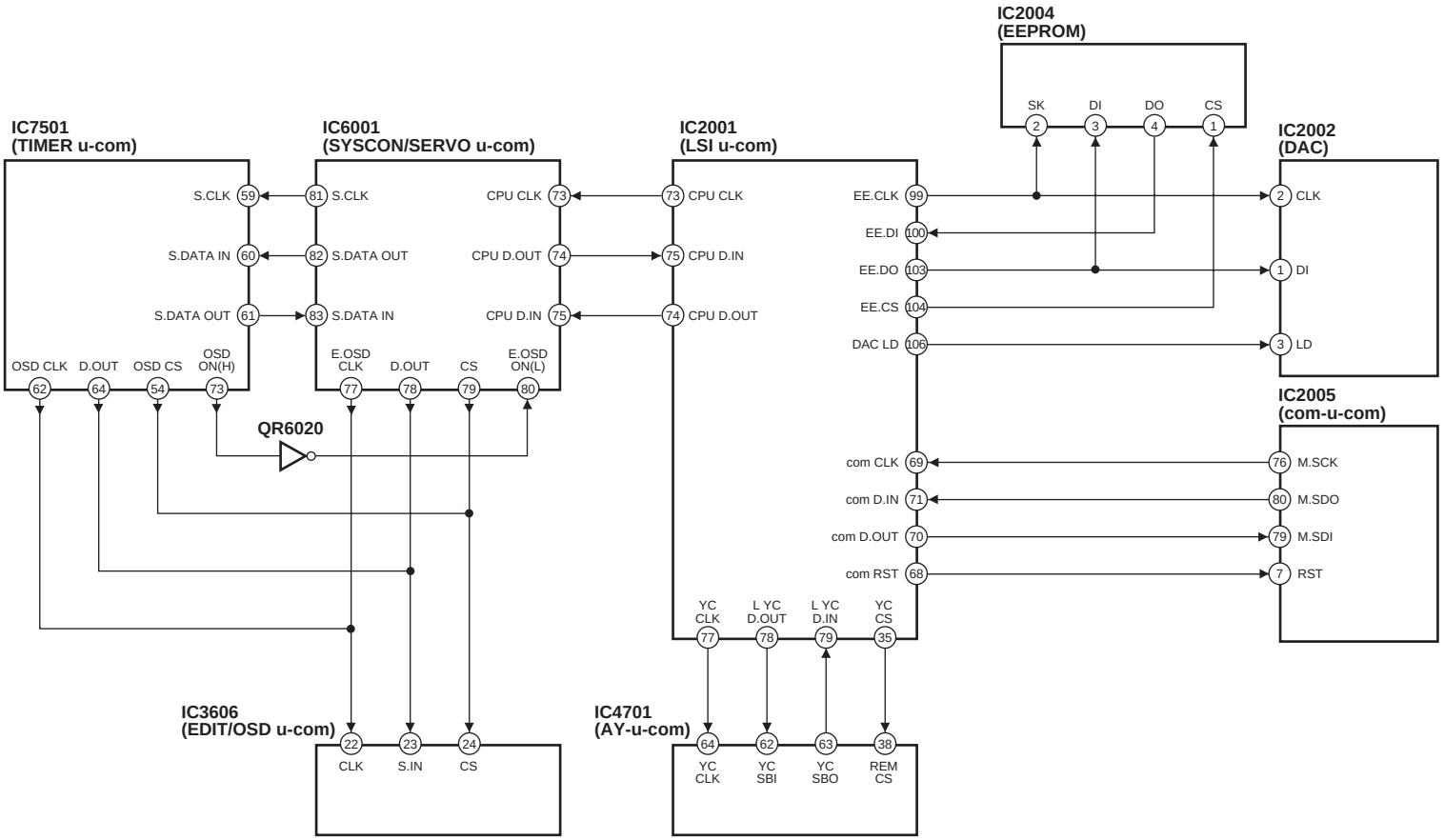
IC2505
(FG AMP)

7 → 6

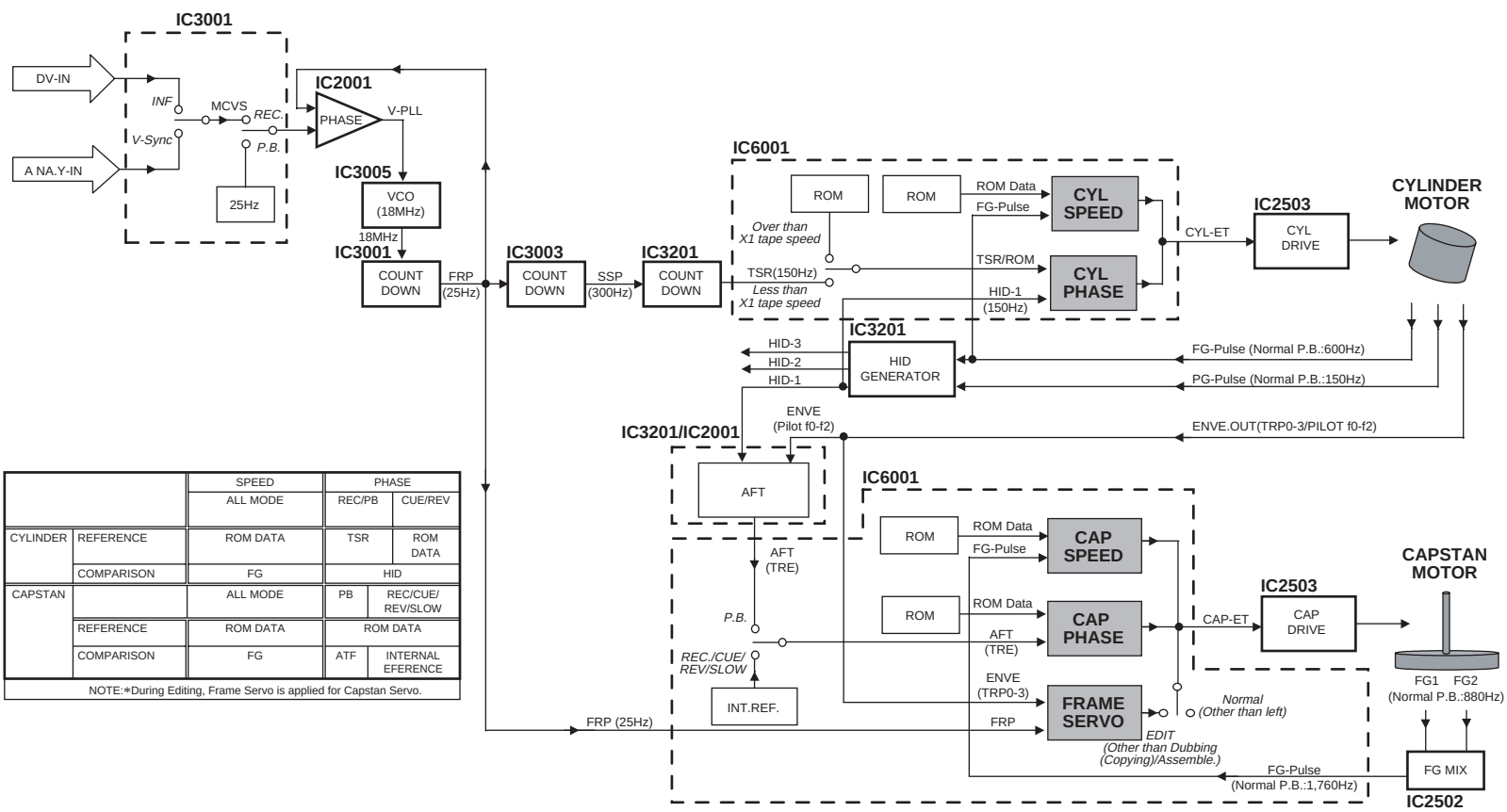
IC3001
(DV I/O)

FRP 64 → 58 FRP

MAIN DATA / CLOCK TRANSMISSION



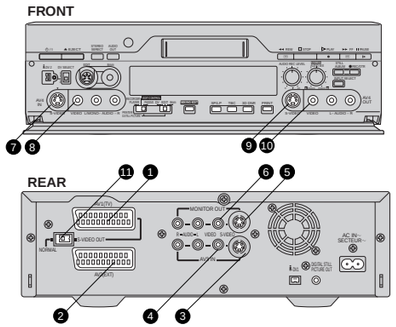
CYLINDER & CAPSTAN SERVO

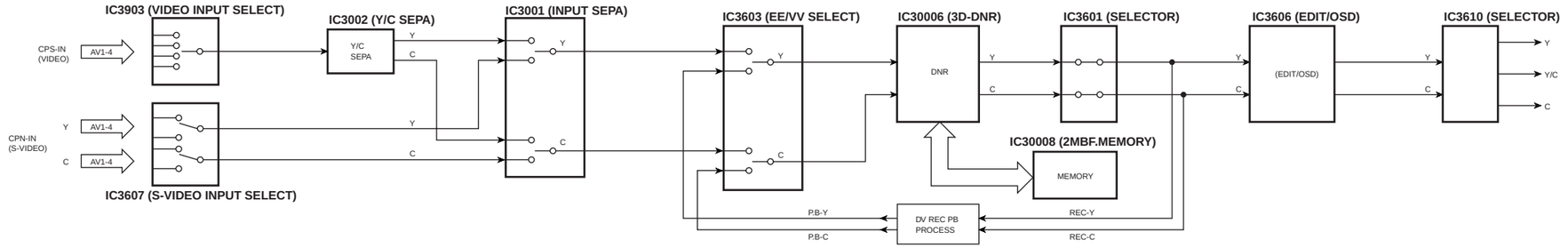


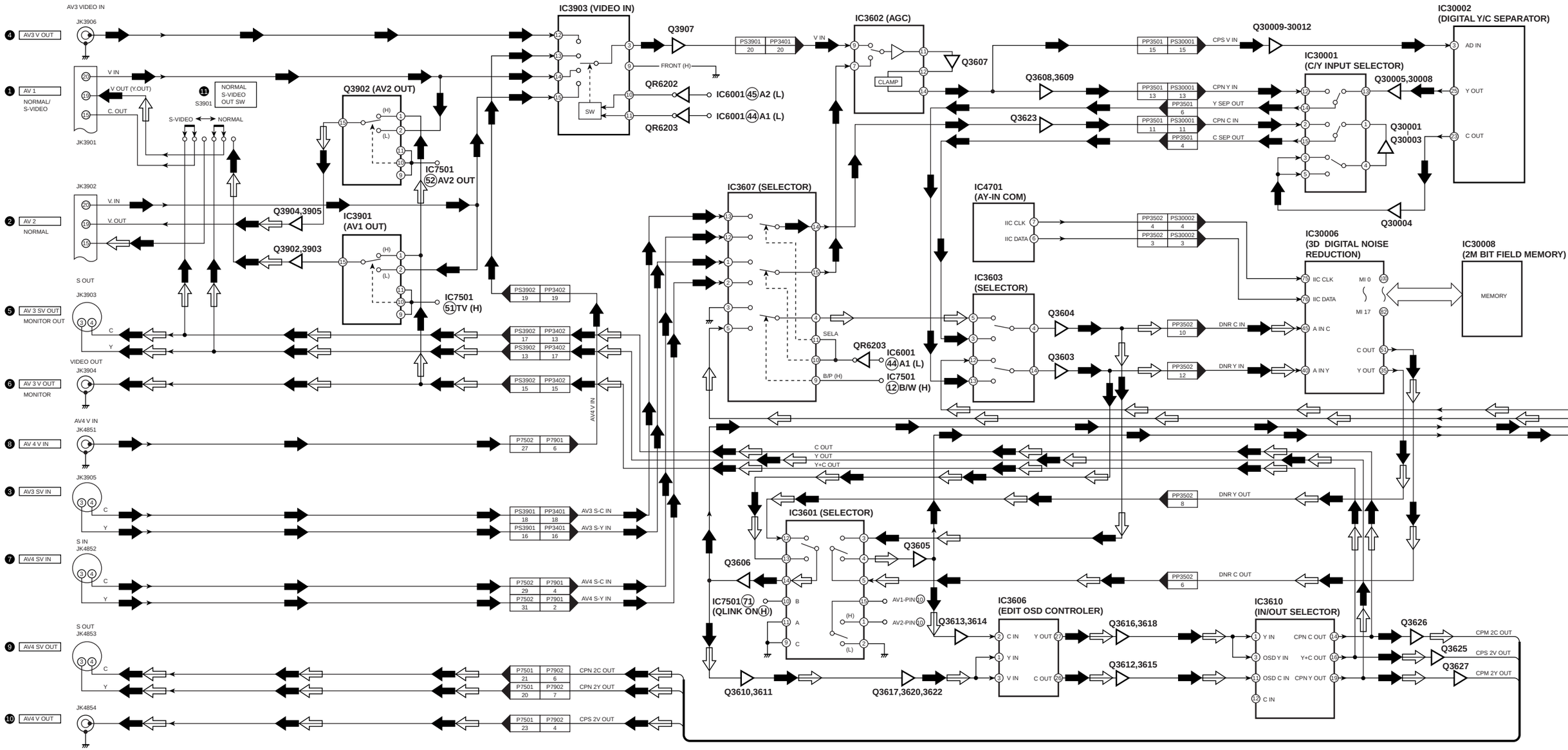
		SPEED	PHASE	
		ALL MODE	REC/PB	CUE/REV
CYLINDER	REFERENCE	ROM DATA	TSR	ROM DATA
	COMPARISON	FG	HID	
CAPSTAN		ALL MODE	PB	REC/CUE/ REV/SLOW
	REFERENCE	ROM DATA	ROM DATA	
	COMPARISON	FG	ATF	INTERNAL EFERENCE

NOTE:*During Editing, Frame Servo is applied for Capstan Servo.

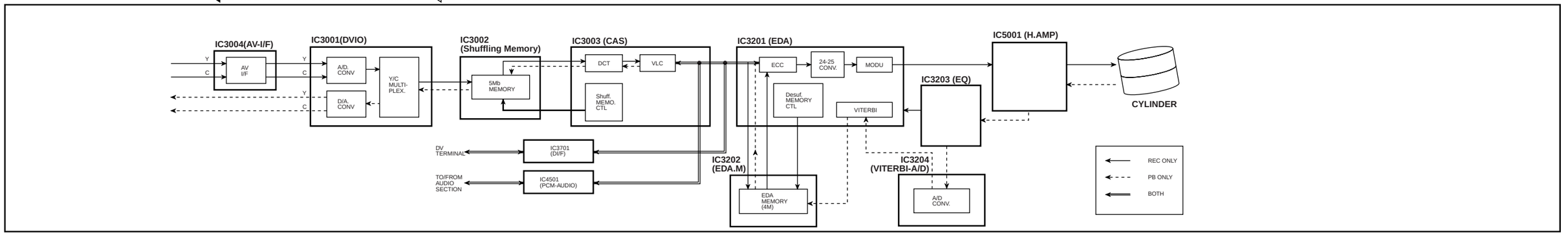
VIDEO MAIN SIGNAL PATH IN REC MODE VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

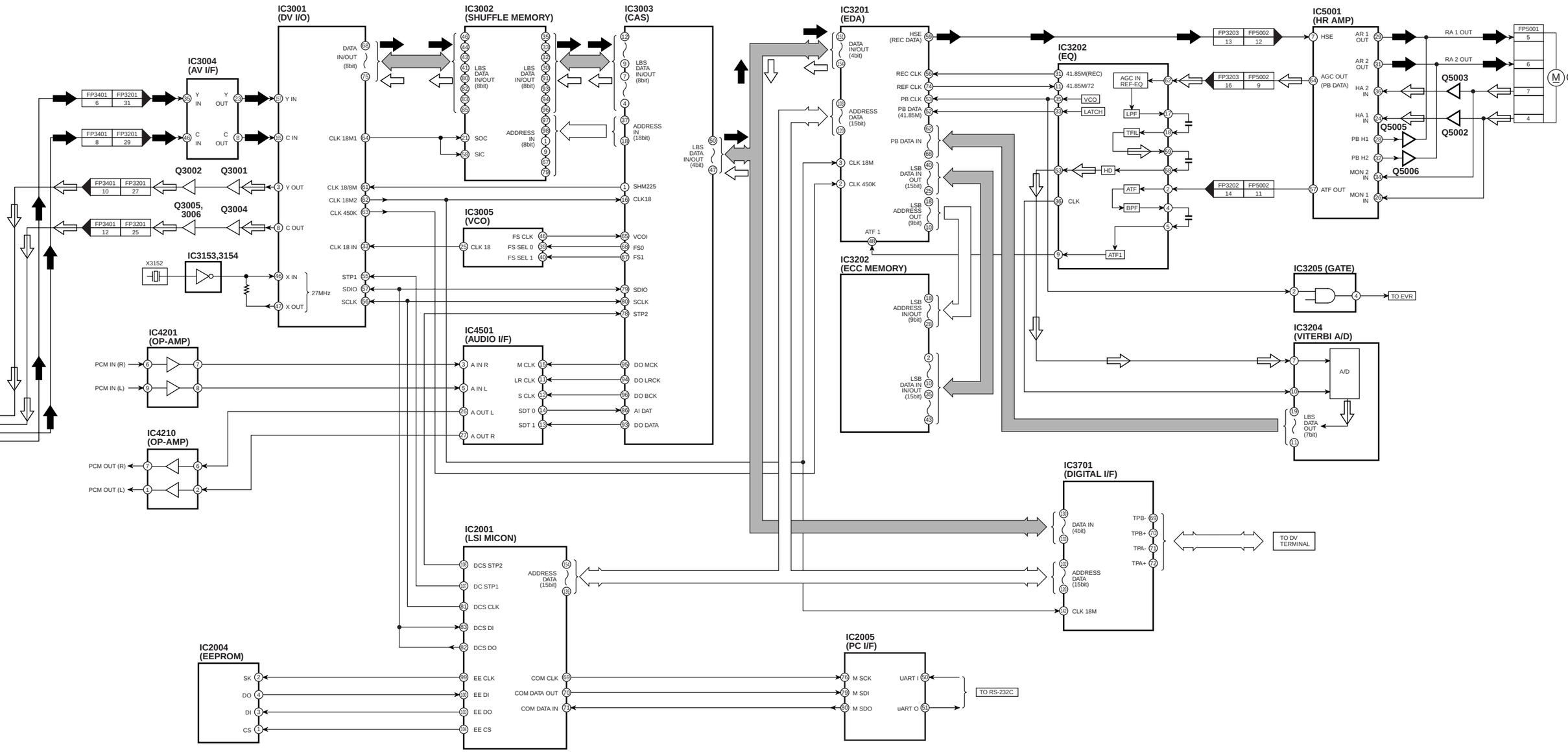


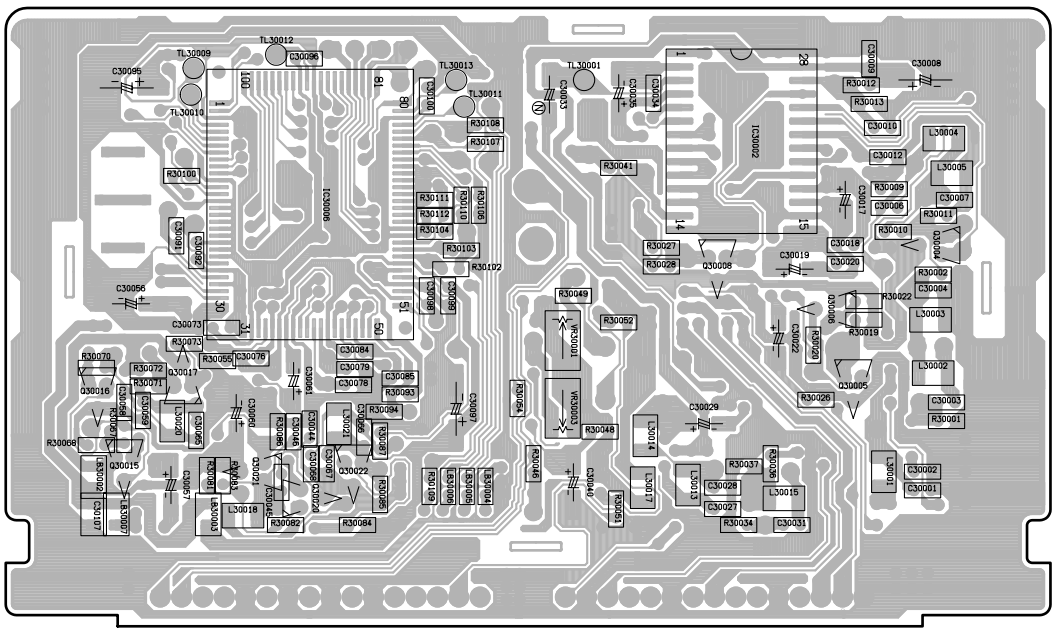




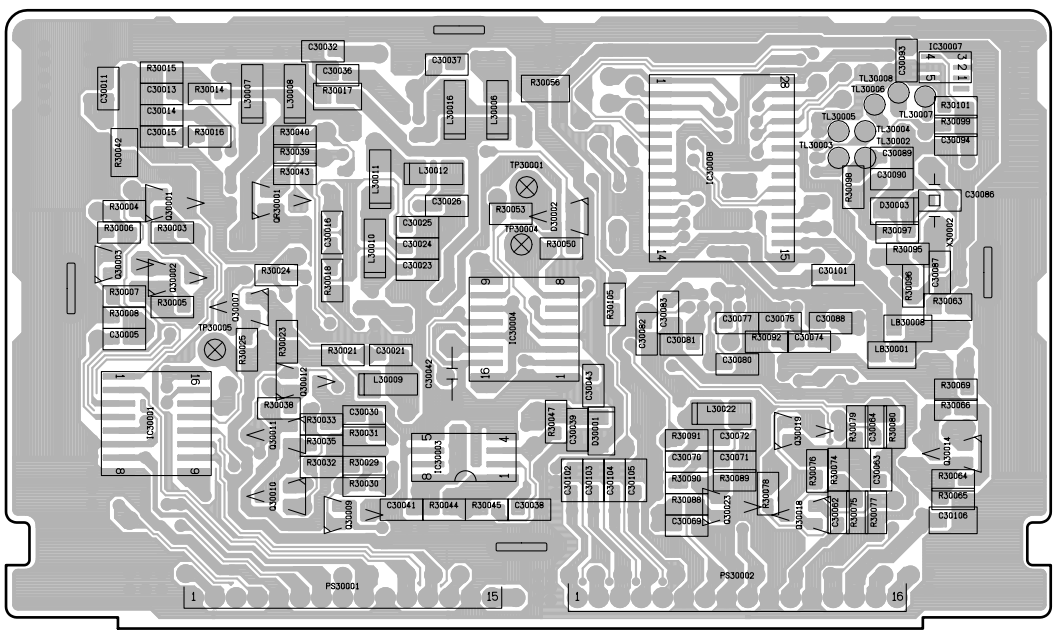
VIDEO MAIN SIGNAL PATH IN REC MODE VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE







(FOIL SIDE)



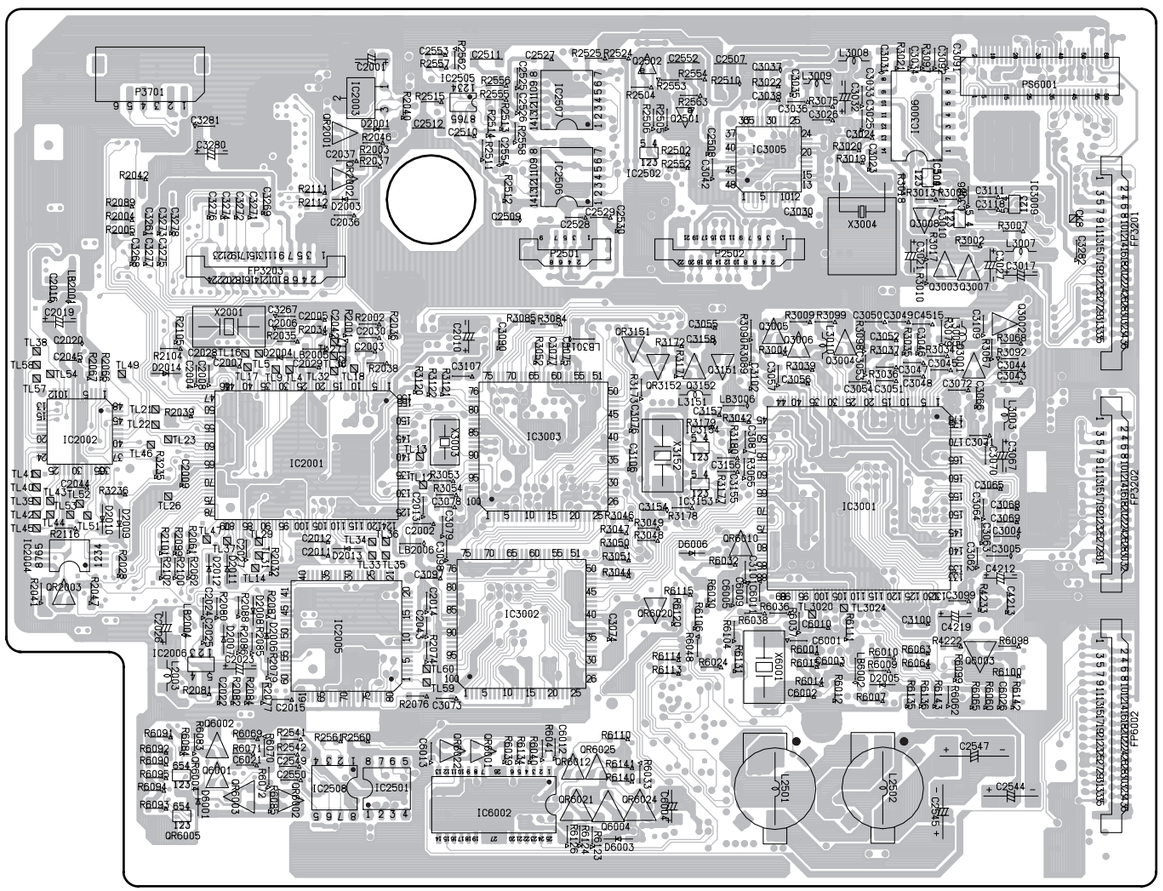
(COMPONENT SIDE)

ANALOG Y/C C.B.A.		
Transistor		
Q30001	B-2	(C)
Q30002	B-2	(C)
Q30003	B-1	(C)
Q30004	D-3	(F)
Q30005	C-3	(F)
Q30006	C-3	(F)
Q30007	B-2	(C)
Q30008	D-3	(F)
Q30009	A-2	(C)
Q30010	A-2	(C)
Q30011	A-2	(C)
Q30012	A-2	(C)
Q30014	A-4	(C)
Q30015	C-1	(F)
Q30016	C-1	(F)
Q30017	C-2	(F)
Q30018	A-3	(C)
Q30019	A-3	(C)
Q30020	C-2	(F)
Q30021	C-2	(F)
Q30022	C-2	(F)
Q30023	A-3	(C)
Transistor & Resistor		
QR30001	B-2	(C)
Integrated Circuit		
IC30001	A-2	(C)
IC30002	D-3	(F)
IC30003	A-2	(C)
IC30004	B-2	(C)
IC30006	D-2	(F)
IC30007	B-4	(C)
IC30008	B-3	(C)
Test Land		
TL30001	D-3	(F)
TL30002	B-3	(C)
TL30003	B-3	(C)
TL30004	B-3	(C)
TL30005	B-3	(C)
TL30006	B-3	(C)
TL30007	B-3	(C)
TL30008	B-3	(C)
TL30009	D-2	(F)
TL30010	D-2	(F)
TL30011	D-2	(F)
TL30012	D-2	(F)
TL30013	D-2	(F)
Test Point		
TP30001	B-2	(C)
TP30004	B-2	(C)
TP30005	A-2	(C)
Adjstment		
VR30001	C-3	(F)
VR30003	C-3	(F)
Connector		
PS30001	A-2	(C)
PS30002	A-3	(C)

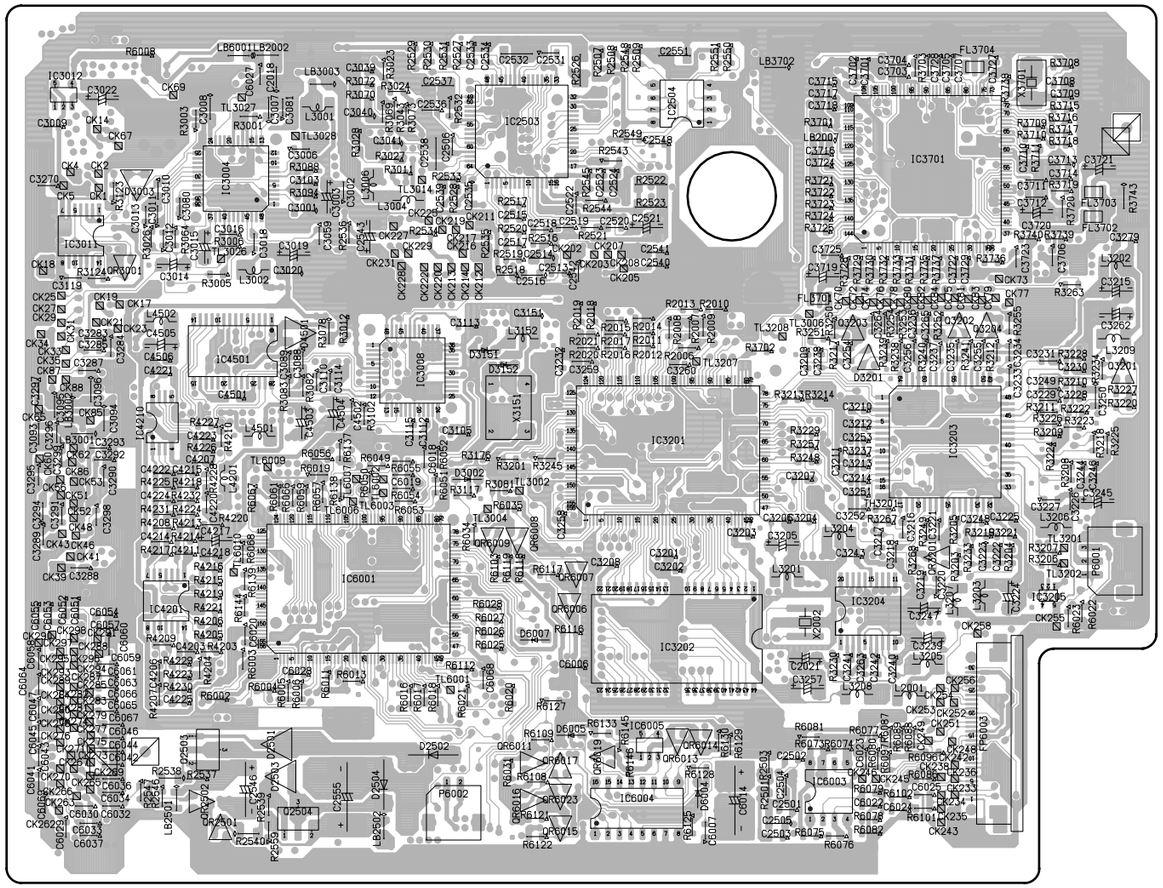
ADDRESS INFORMATION
(C) : COMPONENT SIDE
(F) : FOIL SIDE

DIGITAL C.B.A.																					
Transistor			Transistor & Resistor			QR6014	A-8	(C)	IC2505	C-2	(F)	IC3701	C-9	(C)	TL6001	A-7	(C)
Q2501	C-3	(F)	QR2001	C-2	(F)	QR6015	A-7	(C)	IC2506	C-3	(F)	IC4210	B-6	(C)	TL6002	B-7	(C)
Q2502	C-3	(F)	QR2002	C-2	(F)	QR6016	A-7	(C)	IC2507	C-3	(F)	IC4501	B-6	(C)	TL6003	B-7	(C)
Q2503	A-6	(C)	QR2003	B-1	(F)	QR6017	A-7	(C)	IC2508	A-2	(F)	IC6001	B-7	(C)	TL6006	B-7	(C)
Q2504	A-6	(C)	QR2501	A-6	(C)	QR6019	A-7	(C)	IC3001	B-4	(F)	IC6002	A-2	(F)	TL6007	B-7	(C)
Q3001	B-4	(F)	QR2502	A-6	(C)	QR6020	B-3	(F)	IC3002	B-3	(F)	IC6003	A-8	(C)	TL6009	B-6	(C)
Q3002	B-4	(F)	QR3001	C-6	(C)	QR6021	A-3	(F)	IC3003	B-3	(F)	IC6004	A-8	(C)	TL6010	B-6	(C)
Q3003	C-4	(F)	QR3151	B-3	(F)	QR6022	A-2	(F)	IC3004	C-6	(C)	IC6005	A-8	(C)			
Q3004	B-4	(F)	QR3152	B-3	(F)	QR6023	A-7	(C)	IC3005	C-3	(F)				Connector		
Q3005	B-3	(F)	QR3201	B-9	(C)	QR6024	A-3	(F)	IC3006	C-4	(F)	Test Land			FP3201	C-5	(F)
Q3006	B-4	(F)	QR6001	A-2	(F)	QR6025	A-3	(F)	IC3007	C-4	(F)	TL3002	B-7	(C)	FP3202	B-5	(F)
Q3007	C-4	(F)	QR6002	A-2	(F)				IC3008	B-7	(C)	TL3004	B-7	(C)	FP3203	C-2	(F)
Q3151	B-3	(F)	QR6003	A-2	(F)	Integrated Circuit			IC3009	C-4	(F)	TL3006	B-8	(C)	FP6002	A-5	(F)
Q3152	B-3	(F)	QR6004	A-1	(F)	IC2001	B-2	(F)	IC3010	C-4	(F)	TL3014	C-7	(C)	FP6003	A-9	(C)
Q3201	B-9	(C)	QR6005	A-1	(F)	IC2002	B-1	(F)	IC3011	C-6	(C)	TL3020	B-4	(F)	P2501	C-3	(F)
Q3202	B-9	(C)	QR6006	B-7	(C)	IC2003	C-2	(F)	IC3012	C-5	(C)	TL3024	B-4	(F)	P2502	C-3	(F)
Q3203	B-8	(C)	QR6007	B-7	(C)	IC2004	B-1	(F)	IC3153	B-3	(F)	TL3026	C-6	(C)	P3701	C-1	(F)
Q3204	B-9	(C)	QR6008	B-7	(C)	IC2005	B-2	(F)	IC3154	B-3	(F)	TL3027	C-6	(C)	P6001	B-9	(C)
Q6001	A-2	(F)	QR6009	B-7	(C)	IC2006	A-1	(F)	IC3201	B-8	(C)	TL3028	C-6	(C)	P6002	A-7	(C)
Q6002	A-2	(F)	QR6010	B-3	(F)	IC2501	A-2	(F)	IC3202	A-8	(C)	TL3201	B-9	(C)	PS6001	C-4	(F)
Q6003	A-4	(F)	QR6011	A-7	(C)	IC2502	C-3	(F)	IC3203	B-9	(C)	TL3202	B-9	(C)			
Q6004	A-3	(F)	QR6012	A-3	(F)	IC2503	C-7	(C)	IC3204	B-8	(C)	TL3207	B-8	(C)			
			QR6013	A-8	(C)	IC2504	C-8	(C)	IC3205	B-9	(C)	TL3208	B-8	(C)			

ADDRESS INFORMATION
(C) : COMPONENT SIDE
(F) : FOIL SIDE



(FOIL SIDE)



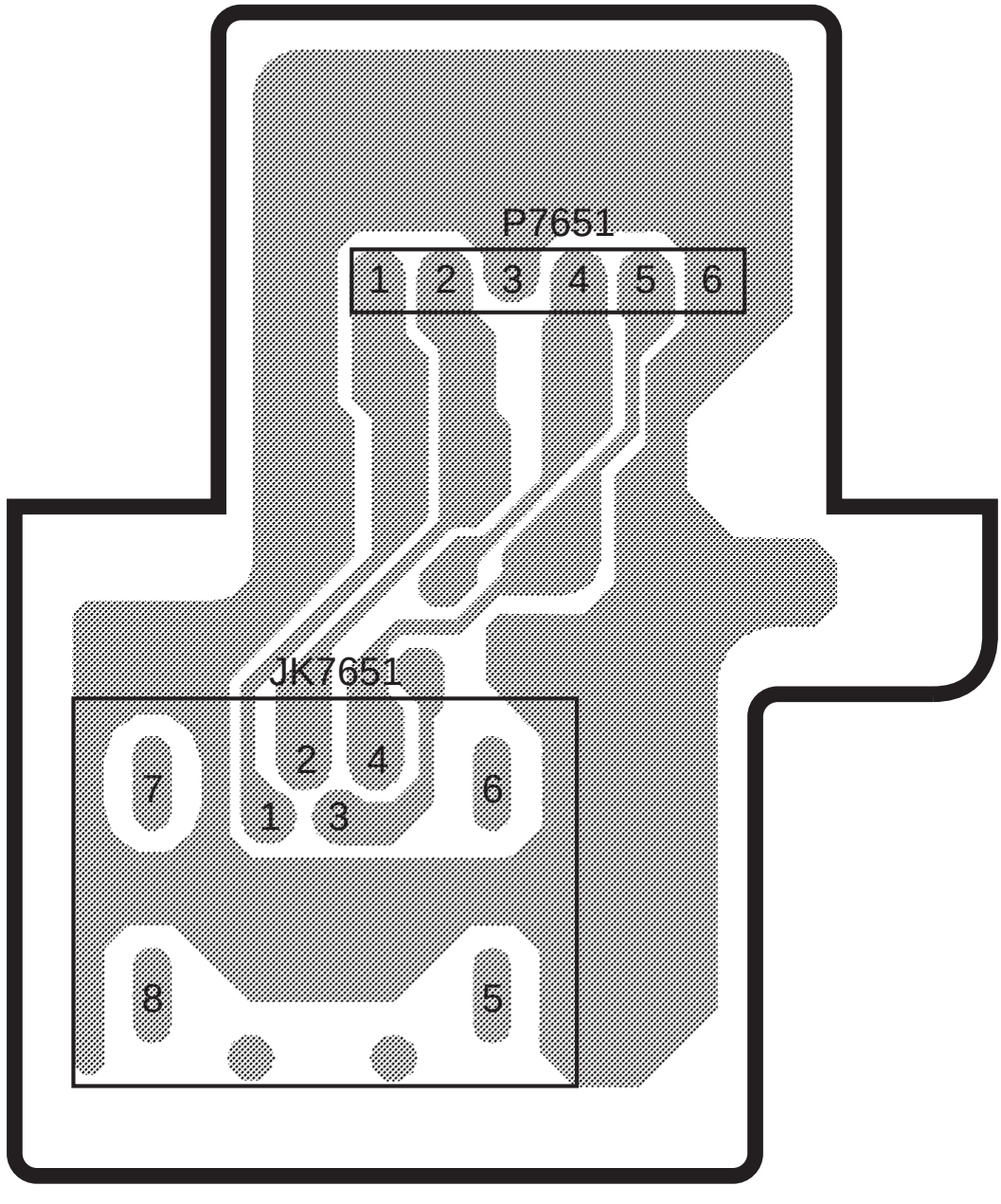
(COMPONENT SIDE)

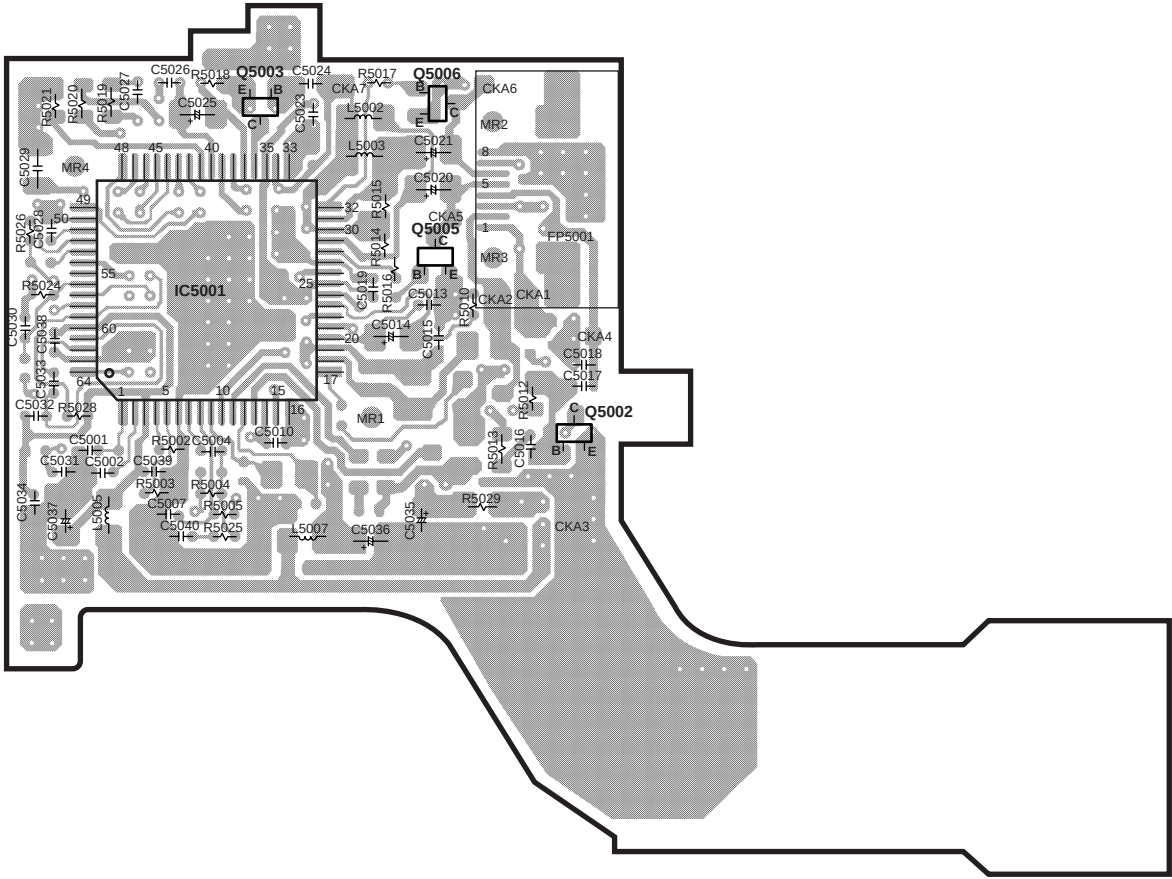
C

B

A

1 2 3 4 5 6 7 8 9


P7651
1
2
3
4
5
6
JK7651
7
2
4
6
1
3
8
5


IC5001
Q5002
Q5003
Q5005
Q5006
FP5001
MR1
MR2
MR3
MR4
CKA1
CKA2
CKA3
CKA4
CKA5
CKA6
CKA7
C5001
C5002
C5003
C5004
C5005
C5007
C5010
C5013
C5014
C5015
C5017
C5018
C5019
C5020
C5021
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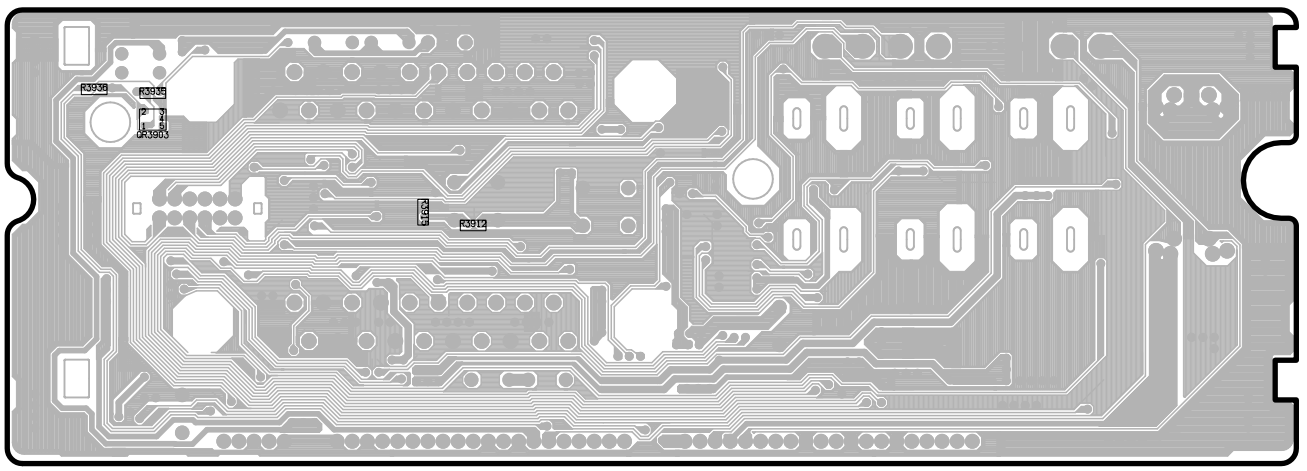
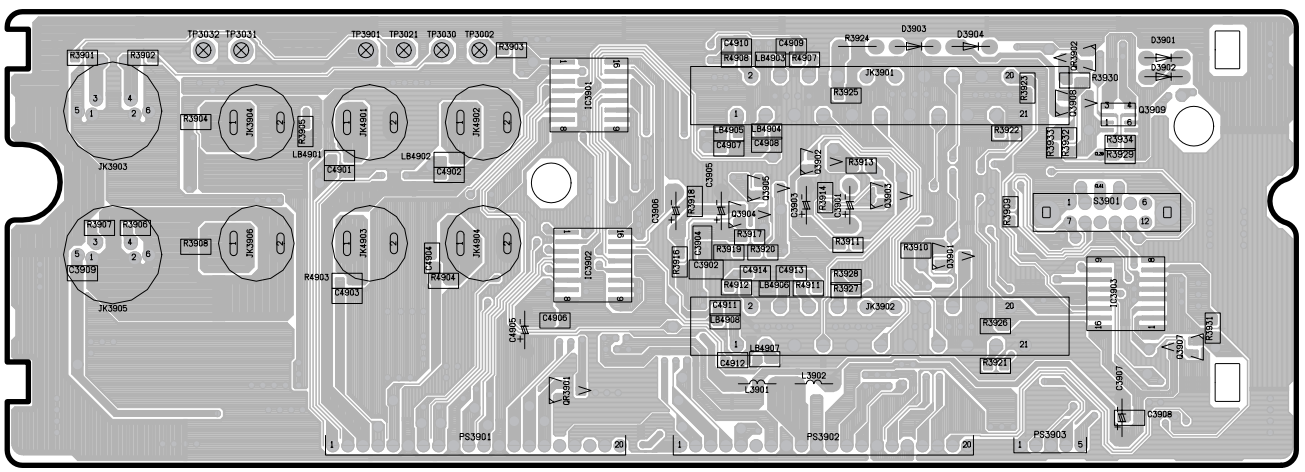
C5032
C5033
C5034
C5035
C5036
C5037
C5038
C5039
C5040
L5002
L5003
L5007
R5002
R5003
R5004
R5005
R5007
R5008
R5009
R5010
R5011
R5012
R5013
R5014
R5015
R5016
R5017
R5018
R5019
R5020
R5021
R5022
R5023
R5024
R5025
R5026
R5027
R5028
R5029

INPUT/OUTPUT C.B.A.			
Transistor		Test Point	
Q3901	A-3	TP3002	B-2
Q3902	A-3	TP3021	B-2
Q3903	A-3	TP3030	B-2
Q3904	A-3	TP3031	B-1
Q3905	A-3	TP3032	B-1
Q3907	A-4	TP3901	B-2
Q3908	B-4		
Q3909	B-4	Connector	
		PS3901	A-2
Transistor & Resistor		PS3902	A-3
QR3901	A-2	PS3903	A-3
QR3902	B-4		
QR3903	C-1		
Integrated Circuit			
IC3901	B-2		
IC3902	A-2		
IC3903	A-4		

ADDRESS INFORMATION



(FOIL SIDE)



(COMPONENT SIDE)

C

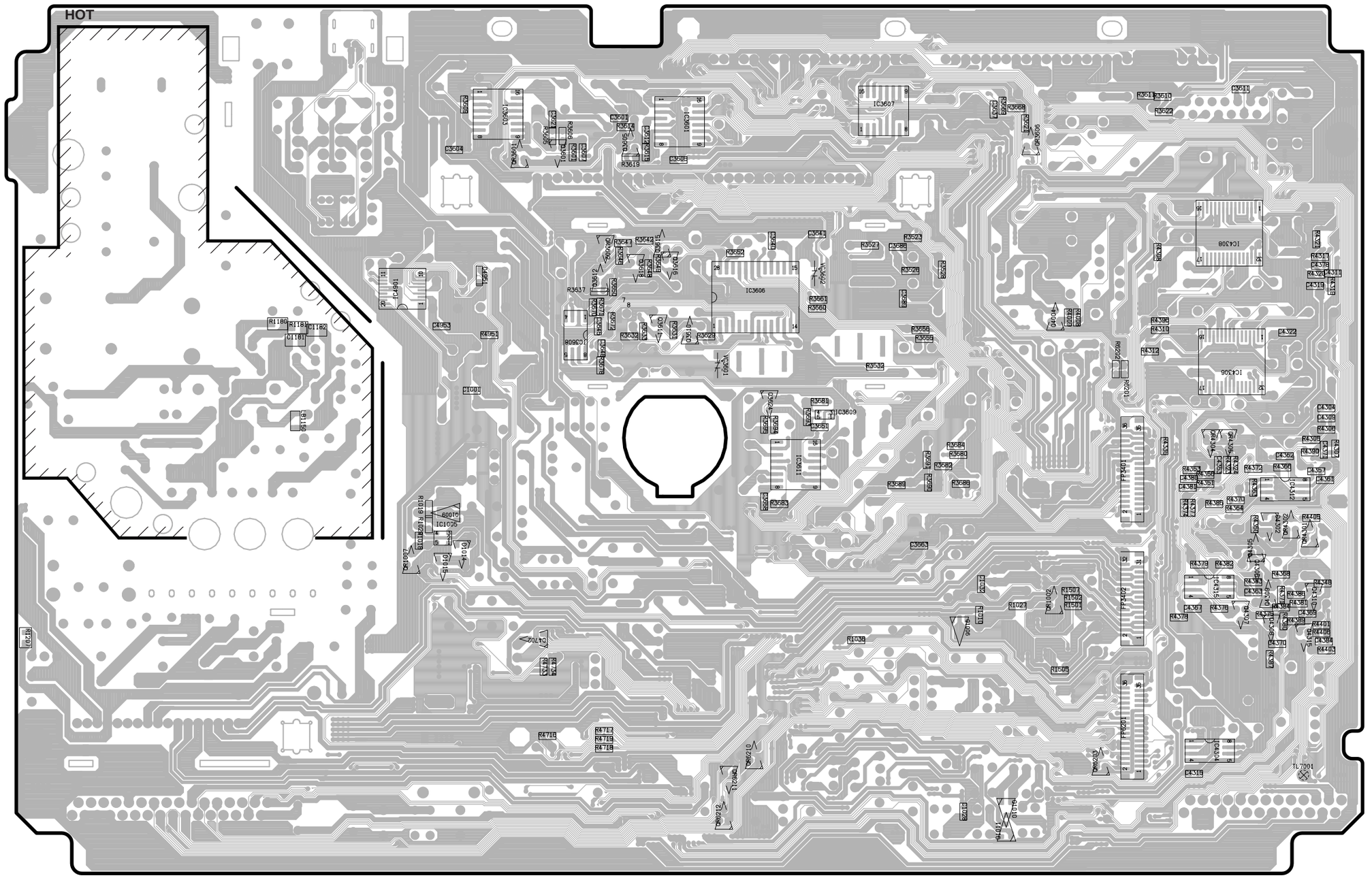
B

A

1 2 3 4

CAUTION

THE ▨ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.



(FOIL SIDE)

MAIN C.B.A.
(FOIL SIDE)

Transistor	
Q1006	B-6
Q1009	C-3
Q1010	A-6
Q1011	A-6
Q3601	D-4
Q3605	D-4
Q3610	C-4
Q3611	C-4
Q3612	D-4
Q3615	D-4
Q3616	D-4
Q3618	D-4
Q3624	C-5
Q4004	C-6
Q4305	B-7
Q4306	B-7
Q4307	B-7
Q4308	B-7
Q4309	B-7
Q4310	B-8
Q4315	B-8

Transistor & Resistor	
QR1002	B-6
QR1007	B-3
QR3601	D-4
QR3602	D-4
QR3606	D-6
QR4301	B-8
QR4302	B-8
QR4304	C-7
QR4305	C-7
QR6203	A-7
QR6210	A-5
QR6211	A-5
QR6212	A-5

Integrated Circuit	
IC1005	B-3
IC3601	D-4
IC3603	D-3
IC3606	D-5
IC3607	D-5
IC3608	C-4
IC3609	C-5
IC3611	C-5
IC4304	A-7
IC4306	C-7
IC4308	D-7
IC4312	C-8
IC4315	B-7
IC4901	D-3

Test Land	
TL7001	A-8

Adjstment	
VC3601	C-5
VC3602	D-5

Connector	
FP3401	C-7
FP3402	B-7
FP6201	B-7

ADDRESS INFORMATION